

S
388.11
H3ens
1985

STATE DOCUMENTS COLLECTION

AUG 13 1984

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HELENA, MONTANA 59620

PLEASE RETURN

1985 ESTIMATE OF THE COST OF COMPLETING

THE NATIONAL SYSTEM OF INTERSTATE AND DEFENSE HIGHWAYS

IN THE STATE OF MONTANA

SEPTEMBER 1984

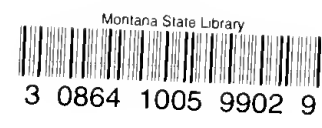
(DATA AS OF DECEMBER 31, 1983)

PREPARED BY

MONTANA DEPARTMENT OF HIGHWAYS
IN COOPERATION WITH THE
FEDERAL HIGHWAY ADMINISTRATION
U.S. DEPARTMENT OF TRANSPORTATION

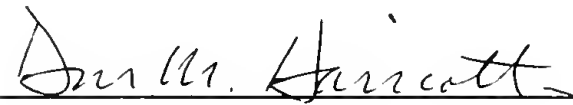
IN ACCORDANCE WITH

SECTION 104(b)(5), TITLE 23 U.S. CODE, HIGHWAYS

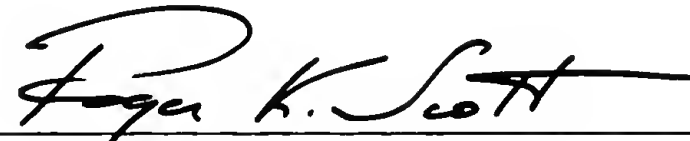


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This 1985 Estimate of the cost of completing the National System of Interstate and Defense Highways in the State of MONTANA as of December 31, 1983, was prepared in accordance with Title 23, USC, Section 104(b)(5) and the FHWA Instruction Manual by the MONTANA DEPARTMENT OF HIGHWAYS in cooperation with the Federal Highways Administration.



Don M. Harriott, P.E.
Administrator, Engineering Division
Montana Department of Highways



Roger K. Scott
Division Administrator
Federal Highways Administration

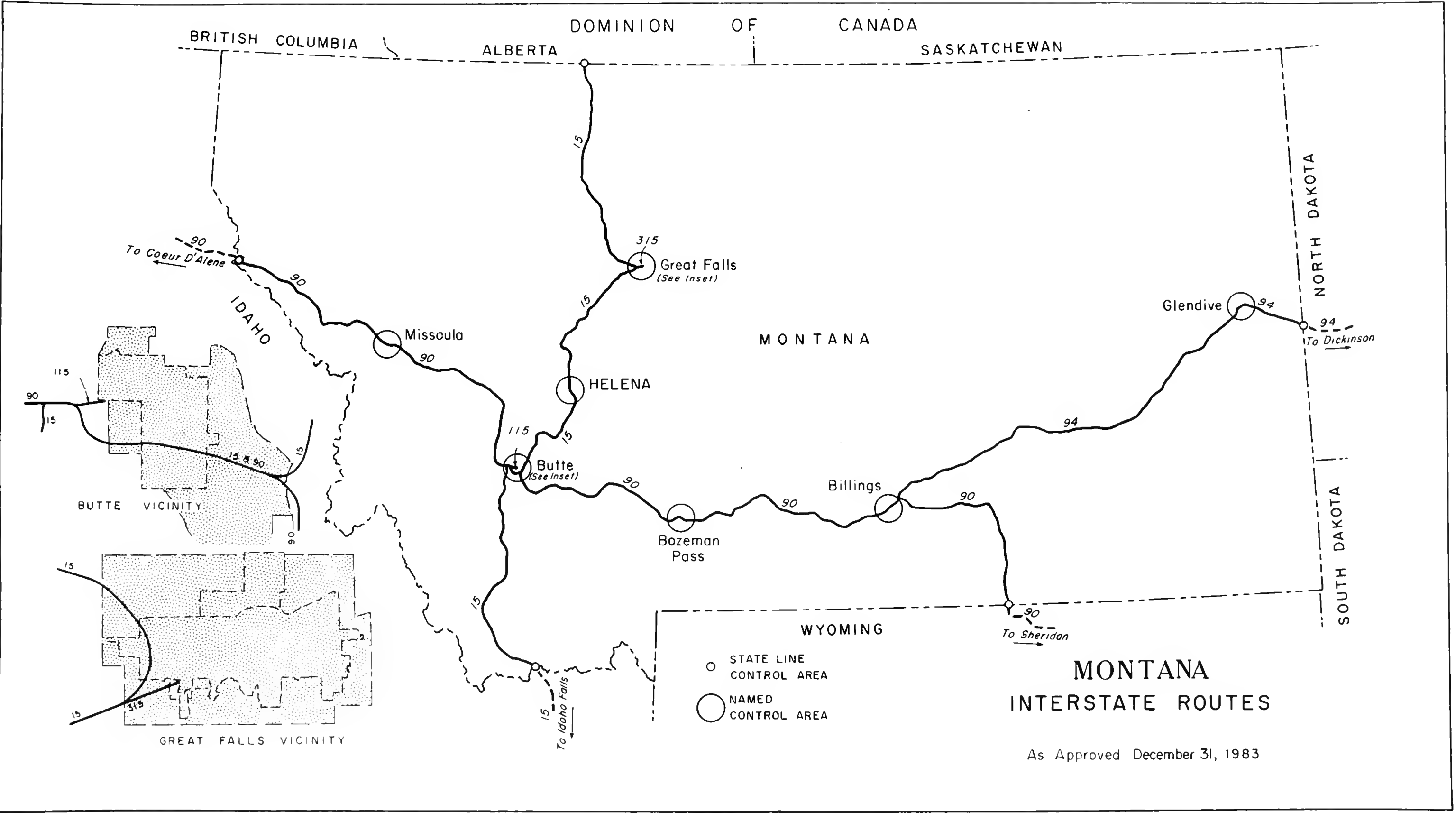
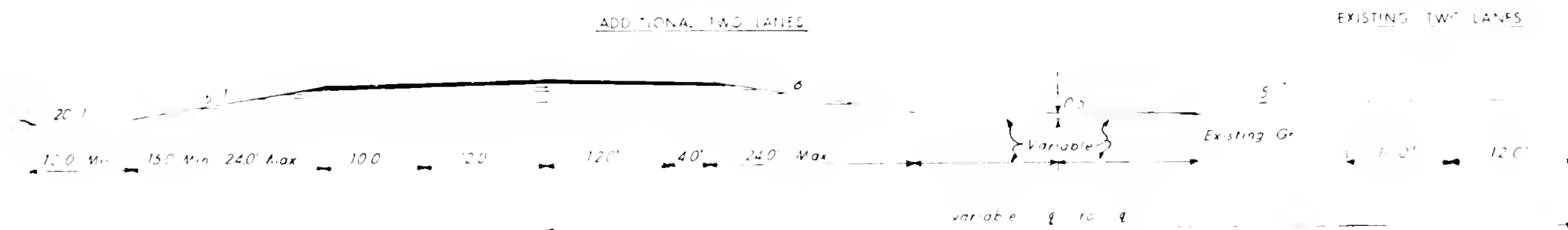

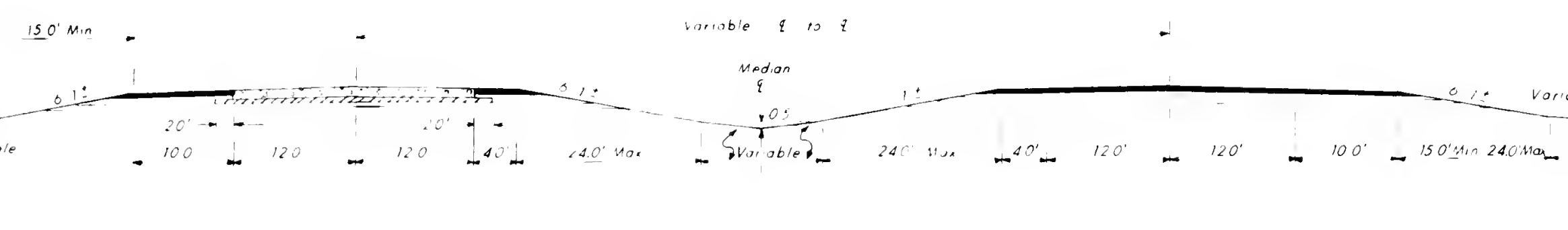

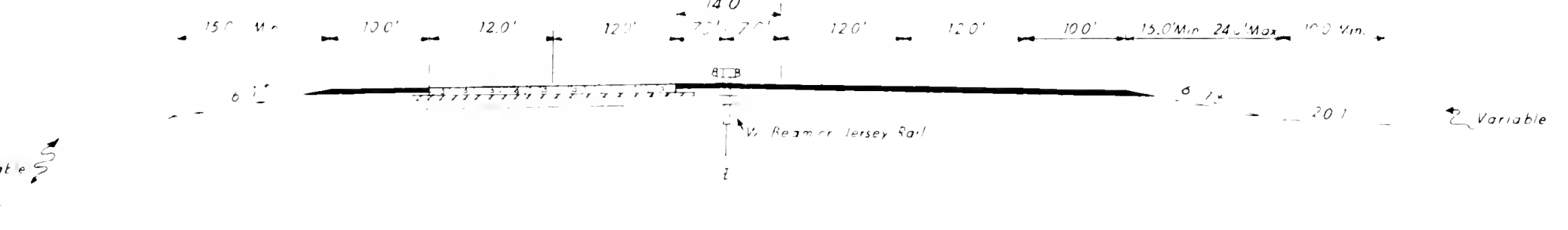
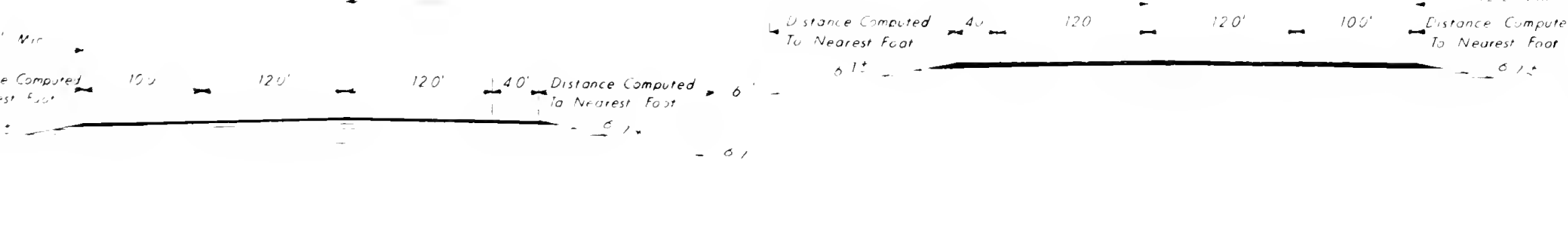
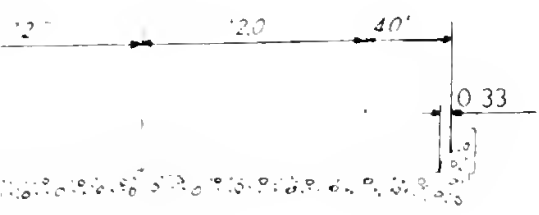


TABLE A
APPROVED INTERSTATE ROUTE DESCRIPTION
STATE Montana

Route Number	Route Description	Length Miles	
		ROUTE SIGNIF. N	ROUTE SIGNIF. L
15	From the Montana-Idaho State line at Monida Pass via Butte, Helena and Great Falls to the international boundary at Sweetgrass	395.2	
90	From the Montana-Idaho State line at Lookout Pass via Missoula to a point on Interstate Route 15 west of Butte, and from another point on Interstate Route 15 east of Butte via Bozeman Pass and Billings to the Montana-Wyoming State line north of Sheridan, Wyoming	543.7	
94	From a point on Interstate Route 90 near Billings via Glendive to the Montana-North Dakota State line near Beach, North Dakota	247.8	
115	From a point on Interstate Route 15 west of Butte, to Butte		1.4
315	From a point on Interstate Route 15 southwest of Great Falls, to Great Falls		0.8
Total		1186.7	2.2

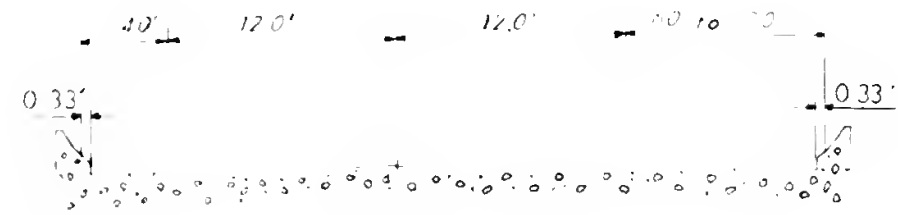
MODIFIED 2 LANE	ROADWAY	TYPICAL SECTION REFERENCE CODE			
		RIGHT SHOULDER	BIT SURF	CONC. SURF	
		5'	20	21	
		5'	22	23	
DEPRESSED MEDIAN		10'	30	31	
		6'	32	33	
4 LANE DIVIDED		10'	40	41	
		6'	42	43	
INDEPENDENT ALIGN			50	51	

BRIDGES

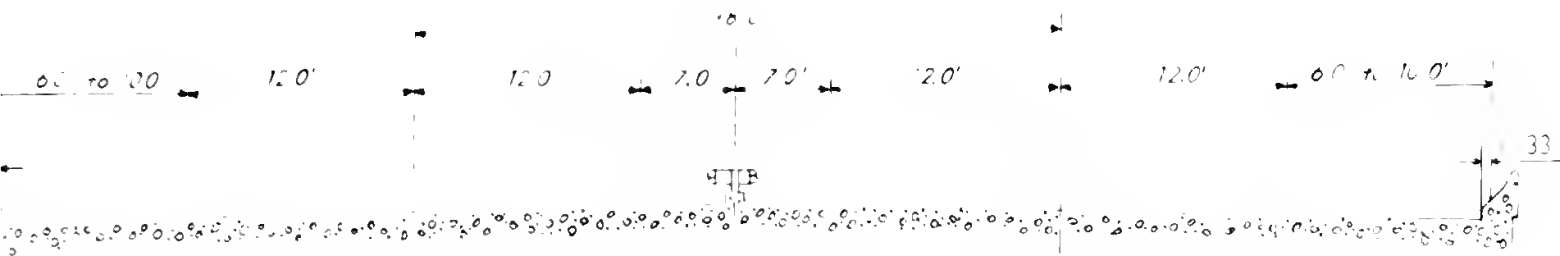


Variable 9 to 9

DEPRESSED MEDIAN



CODE
0' shoulder 60
6' shoulder 61



GUARDRAIL MEDIAN

CODE 70

UNDERPASSES

- Less Than 14 ft Type Of Beam's Limiting Factor
- 1 Absolute Minimum (Guardrail < 30')
- 2 Desirable Minimum

ADJUTANT TWO LANES

EXISTING TWO LANES

GRADE SEPARATION

** May Have Only One Bent If 11' to 20' or Less

CODE 80

- 14' Absolute Minimum (Guardrail < 30')
- 30' Desirable Minimum
- 5'6" Absolute Minimum
- 30' Desirable Minimum

GRADE SEPARATION

CODE 82

- 14' Absolute Minimum (Guardrail < 30')
- 30' Desirable Minimum

GRADE SEPARATION - GUARDRAIL MEDIAN

CODE 84

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<http://www.archive.org/details/estimateofcostof1985mont>

RUN DATE: 08/02/84

1985 INTERSTATE COST ESTIMATE

LE15R85A
PAGE: 1

STATE: MONTANA

CODE: 30

ROUTE: 1 015

TABLE B
DESIGN CLASSIFICATION AND COST ESTIMATE
BY ESTIMATE SECTION

		ESTIMATE SECTION MILE POST					
ITEM							
1. FINANCE CODE	.00	43.82	45.66	51.00	52.38	54.50	
2. SECTION LENGTH, MILES (0.01)	20	22	22	22	22	20	
3. CLASS: RURAL (R) OR URBAN AREA 1.0. (NAME AND CODE)	43.74	1.80	5.30	1.40	2.10	74.00	
4. MILEAGE INCREMENT: CODE (1,2 OR 3)	000	R	R	R	R	000	
5. ROUTE SIGNIFICANCE: CODE (N OR L)		1	1	1	1		
6. DESIGN SPEED(V)		N	N	N	N		
7. BASE YEAR TRAFFIC (1982 ADT)		70	70	70	70		
8. TRAFFIC A. DESIGN YEAR (19) OR (20)	0	1,670	1,670	1,670	1,670	0	
B. ADT DESIGN YEAR		5	5	5	6		
C. DHV DESIGN YEAR		2,630	2,630	2,630	2,630		
D. D. DIRECTION DISTRIBUTION FACTOR		350	350	350	350		
E. T. % TRUCK DESIGN YEAR DHV		55	55	55	55		
F. T. % TRUCK DESIGN YEAR (ADT)		21	21	21	21		
9. NO. LANES TO BE CONSTRUCTED THIS ESTIMATE		28	28	28	28		
10. ULTIMATE NO. THROUGH TRAFFIC LANES		2	2	4	2		
11. TYPICAL CROSS SECTION REFERENCE		4	4	4	4		
12. RIGHT-OF-WAY WIDTH: PREVAILING		20	20	30	20		
13. MEDIAN WIDTH: PREVAILING		300	270	300	300		
14. DEVELOPMENT DEC. 31, 1983 (PR-511)		93	38	38	38		
		2A2F	2A2F	4A10	2A2F		
WORK CLASSIFICATION		ESTIMATED COSTS (1,000 DOLLARS)					
1. PRELIMINARY ENGINEERING		0	0	0	0		
2. RIGHT-OF-WAY A. ACQUISITION		0	0	0	0		
B. RELOCATION		0	0	0	0		
3. UTILITY ADJUSTMENT		0	0	0	0		
4. EROSION CONTROL, CLEAR, GRUB, GRADE, DRAIN, MINOR STR.		744	1,676	1,144	1,715		
5. SUBBASE; BASE; SURFACING; SHOULDERS		739	1,916	616	923		
6. R.R. GRADE SEPARATIONS		0	0	0	0		
7. HIGHWAY GRADE SEPARATIONS WITHOUT RAMPS		0	282	0	0		
8. INTERCHANGES		195	0	1,866	0		
9. OTHER BRIDGES, TUNNELS AND WALLS		0	0	99	86		
10. TRAFFIC CONTROL DEVICES		252	211	78	118		
11. WEIGH STATIONS, PEDESTRIAN AND BICYCLE FACILITIES	0	0	0	0	0	0	
12. SAFETY WORK ON COMPLETED SECTIONS	0	0	0	0	0	0	
13. NOISE ABATEMENT MEASURES	0	0	0	0	0	0	
14. ROADSIDE IMPROVEMENTS A. LANDSCAPING PLANTING	0	0	0	0	0	0	
B. REST AREAS AND OVERLOOKS	0	0	0	0	0	0	
15. ALL OTHER ITEMS: MAINT TRAF., TRAINING, MOBIL., ETC.	0	119	266	149	224	0	
16. SUBTOTAL, LINE 4 THRU 15	0	2,049	4,351	3,952	3,066	0	
17. CONSTRUCTION ENGINEERING & CONTINGENCIES, 15% OF LINE 16	0	307	653	593	460	0	
18. TOTAL COSTS OF CONSTRUCTION, LINES 16 AND 17	0	2,356	5,004	4,545	3,526	0	
19. TOTAL ESTIMATE COST, LINES 1, 2, 3 AND 18	0	2,356	5,004	4,545	3,526	0	

RUN DATE: 08/02/84

1985 INTERSTATE COST ESTIMATE

LE 15R85A
PAGE: 2

STATE: MONTANA

CODE: 30

TABLE B
DESIGN CLASSIFICATION AND COST ESTIMATE
BY ESTIMATE SECTION

ROUTE: I 015

ESTIMATE SECTION MILE POST

ITEM	128.43	128.88	132.44	142.44	148.89	153.50
1. FINANCE CODE	22	22	20	22	22	22
2. SECTION LENGTH, MILES (0.01)	.40	3.50	10.00	6.40	4.60	2.70
3. CLASS: RURAL (R) OR URBAN AREA I.D. (NAME AND CODE)	R	R	000	R	R	R
4. MILEAGE INCREMENT: CODE (1,2 OR 3)	1	1		1	1	1
5. ROUTE SIGNIFICANCE: CODE (N OR L)	N	N		N	N	N
6. DESIGN SPEED(V)	50	50		50	60	60
7. BASE YEAR TRAFFIC (1982 ADT)	1,510	1,510	0	1,510	1,510	1,510
8. TRAFFIC A. DESIGN YEAR (19) OR (20)	5	5		4	4	4
B. ADT DESIGN YEAR	2,380	2,380		2,330	2,330	2,330
C. DHV DESIGN YEAR	320	320		310	310	310
D. D. DIRECTION DISTRIBUTION FACTOR	55	55		55	55	55
E. T. % TRUCK DESIGN YEAR DHV	13	13		13	13	13
F. T. % TRUCK DESIGN YEAR (ADT)	16	16		16	16	16
9. NO. LANES TO BE CONSTRUCTED THIS ESTIMATE	2	2		4	4	4
10. ULTIMATE NO. THROUGH TRAFFIC LANES	4	4		4	4	4
11. TYPICAL CROSS SECTION REFERENCE	20	20		40	30	30
12. RIGHT-OF-WAY WIDTH: PREVAILING	300	300		300	300	300
13. MEDIAN WIDTH: PREVAILING	46	86		14	76	14
14. DEVELOPMENT DEC. 31, 1983 (PR-511)	2A3F	2A3F		4A30	4A30	4A30
WORK CLASSIFICATION						
ESTIMATED COSTS (1,000 DOLLARS)						
1. PRELIMINARY ENGINEERING	0	0		0	110	65
2. RIGHT-OF-WAY A. ACQUISITION	0	0		0	0	0
B. RELOCATION	0	0		0	0	0
3. UTILITY ADJUSTMENT	0	0		0	0	0
4. EROSION CONTROL, CLEAR, GRUB, GRADE, DRAIN, MINOR STR.	295	2,656		3,565	5,265	5,327
5. SUBBASE; BASE; SURFACING; SHOULDERS	135	1,212		1,988	1,917	3,523
6. R.R. GRADE SEPARATIONS	156	162		0	0	0
7. HIGHWAY GRADE SEPARATIONS WITHOUT RAMPS	0	114		247	0	3,029
8. INTERCHANGES	130	0		0	0	1,325
9. OTHER BRIDGES, TUNNELS AND WALLS	0	0		42	0	217
10. TRAFFIC CONTROL DEVICES	25	228		544	768	1,142
11. WEIGH STATIONS, PEDESTRIAN AND BICYCLE FACILITIES	0	0	0	0	0	0
12. SAFETY WORK ON COMPLETED SECTIONS	0	0	0	0	0	0
13. NOISE ABATEMENT MEASURES	0	0	0	0	0	0
14. ROADSIDE IMPROVEMENTS A. LANDSCAPING PLANTING	0	0	0	0	0	0
B. REST AREAS AND OVERLOOKS	0	0	0	0	0	0
15. ALL OTHER ITEMS: MAINT TRAF., TRAINING, MOBIL., ETC.	8	73	0	357	415	775
16. SUBTOTAL, LINE 4 THRU 15	749	4,445	0	6,743	8,365	15,338
17. CONSTRUCTION ENGINEERING & CONTINGENCIES, 15% OF LINE 16	112	667	0	1,011	1,255	2,301
18. TOTAL COSTS OF CONSTRUCTION, LINES 16 AND 17	861	5,112	0	7,754	9,620	17,639
19. TOTAL ESTIMATE COST, LINES 1, 2, 3 AND 18	861	5,112	0	7,754	9,730	17,704

RUN DATE: 08/02/84

1985 INTERSTATE COST ESTIMATE

LE15R85A
PAGE: 3

STATE: MONTANA

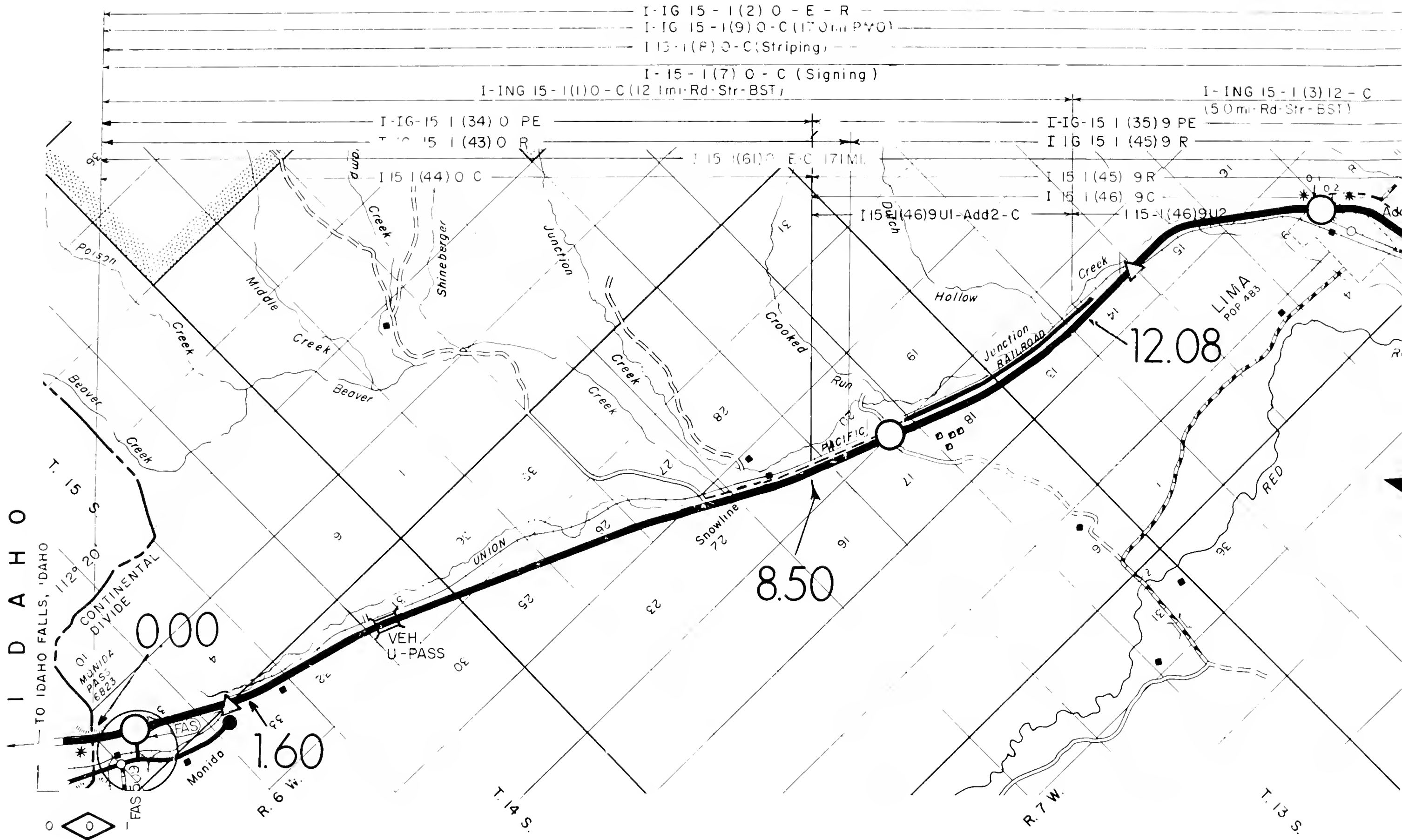
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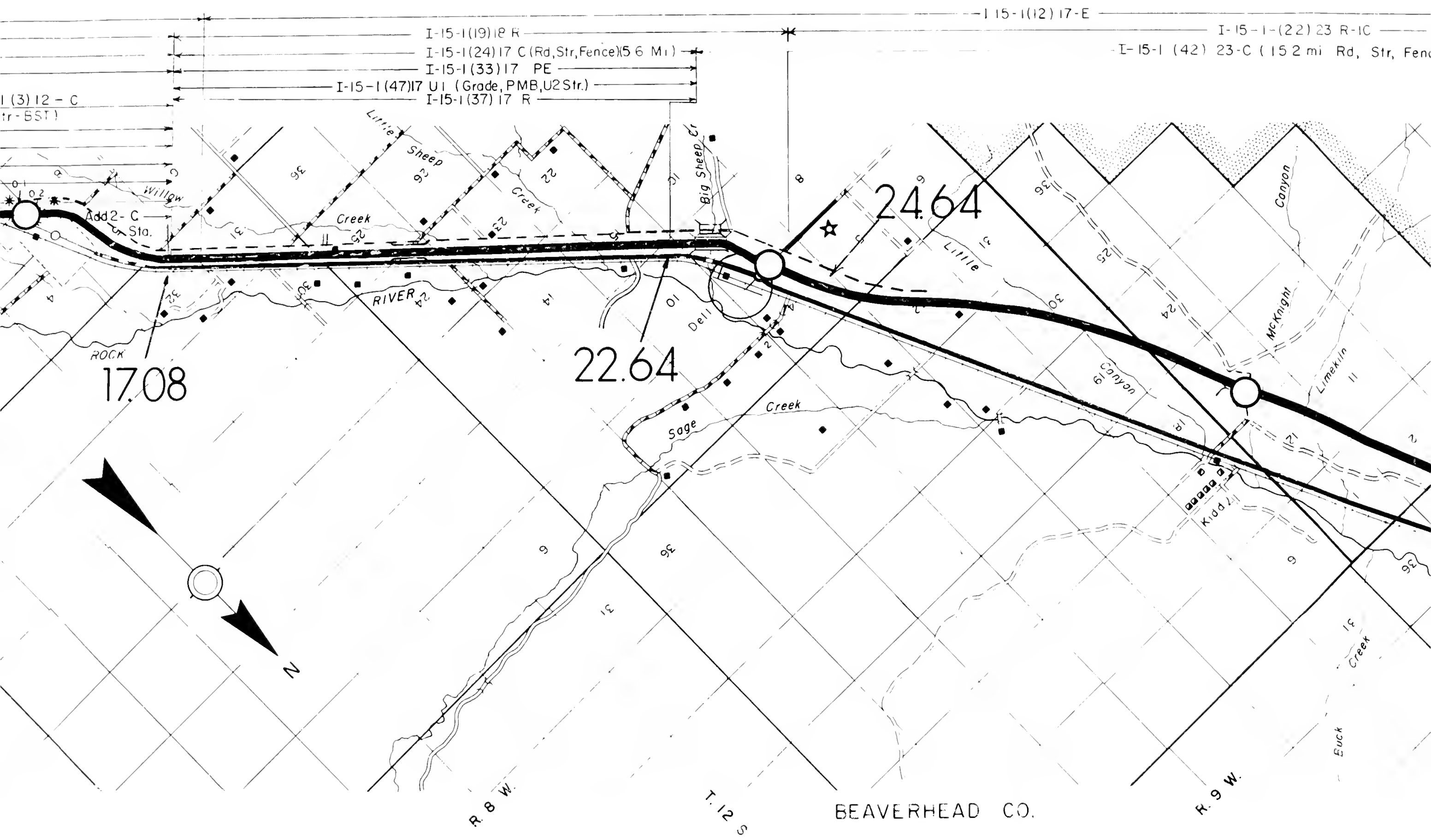
TABLE 8
DESIGN CLASSIFICATION AND COST ESTIMATE
BY ESTIMATE SECTION

ROUTE: I 015

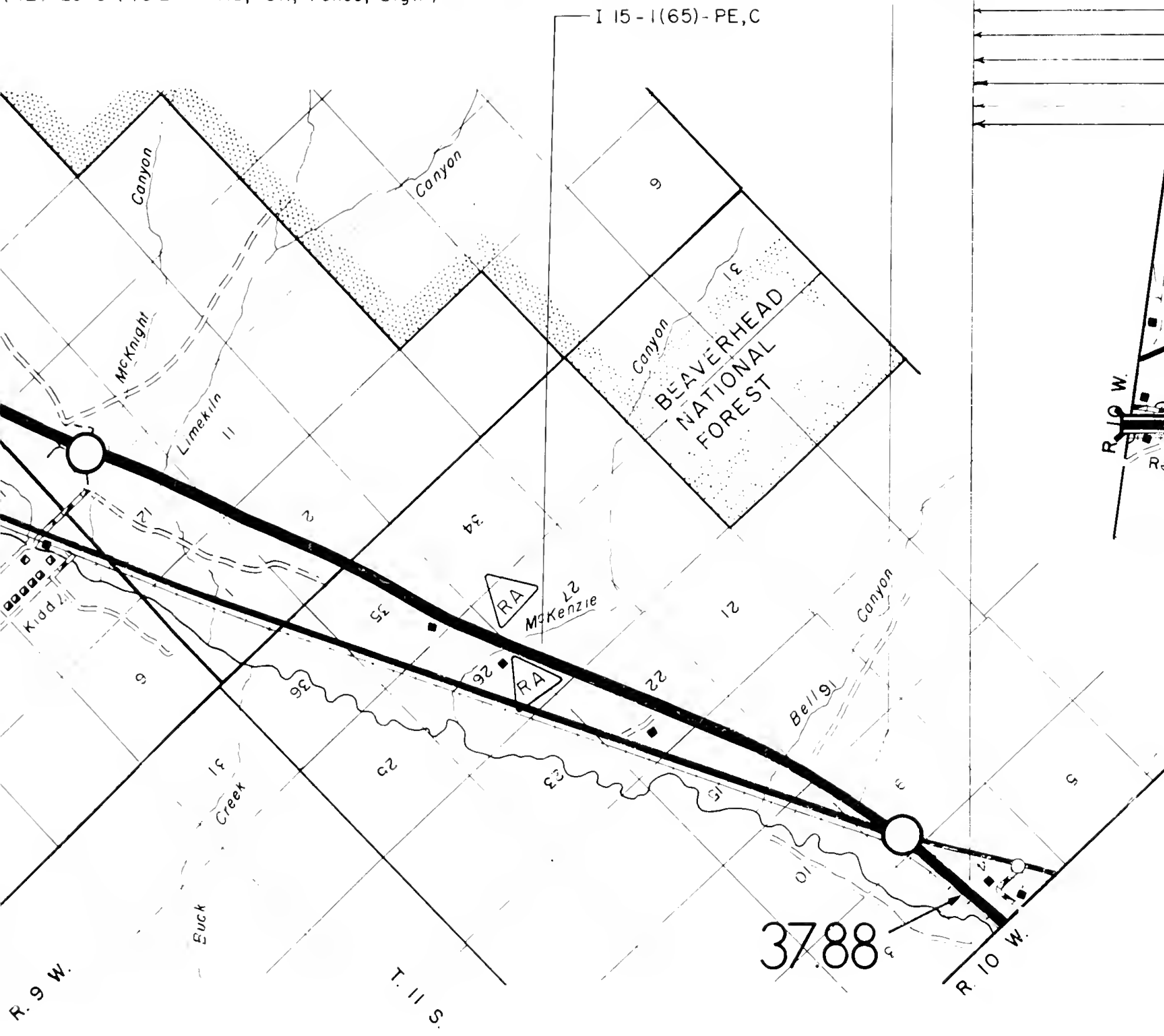
ITEM	ESTIMATE SECTION MILE POST			TOTAL
1. FINANCE CODE	156.16	247.00	344.26	
2. SECTION LENGTH, MILES (10.01)	20	20	20	
3. CLASS: RURAL (R) OR URBAN AREA I.D. (NAME AND CODE)	98.80	97.70	42.80	395.24
4. MILEAGE INCREMENT: CODE (1,2 OR 3)	000	000	000	
5. ROUTE SIGNIFICANCE: CODE (N OR L)				
6. DESIGN SPEED(V)				
7. BASE YEAR TRAFFIC (1982 ADT)	0	0	0	
8. TRAFFIC A. DESIGN YEAR (19) OR (20)				
8. ADT DESIGN YEAR				
C. DHV DESIGN YEAR				
D. D. DIRECTION DISTRIBUTION FACTOR				
E. T. % TRUCK DESIGN YEAR OHV				
F. T. % TRUCK DESIGN YEAR (ADT)				
9. NO. LANES TO BE CONSTRUCTED THIS ESTIMATE				
10. ULTIMATE NO. THROUGH TRAFFIC LANES				
11. TYPICAL CROSS SECTION REFERENCE				
12. RIGHT-OF-WAY WIDTH: PREVAILING				
13. MEDIAN WIDTH: PREVAILING				
14. DEVELOPMENT DEC. 31, 1983 (PR-511)				

WORK CLASSIFICATION	ESTIMATED COSTS (\$1,000 DOLLARS)			
1. PRELIMINARY ENGINEERING				175
2. RIGHT-OF-WAY A. ACQUISITION				0
B. RELOCATION				0
3. UTILITY ADJUSTMENT				0
4. EROSION CONTROL, CLEAR, GRUB, GRADE, DRAIN, MINOR STR.				22,387
5. SUBBASE; BASE; SURFACING; SHOULDERS				12,969
6. R.R. GRADE SEPARATIONS				318
7. HIGHWAY GRADE SEPARATIONS WITHOUT RAMPS				3,672
8. INTERCHANGES				3,516
9. OTHER BRIDGES, TUNNELS AND WALLS				444
10. TRAFFIC CONTROL DEVICES				3,366
11. WEIGH STATIONS, PEDESTRIAN AND BICYCLE FACILITIES	0	0	0	0
12. SAFETY WORK ON COMPLETED SECTIONS	0	0	0	0
13. NOISE ABATEMENT MEASURES	0	0	0	0
14. ROADSIDE IMPROVEMENTS A. LANDSCAPING PLANTING	0	0	0	0
B. REST AREAS AND OVERLOOKS	0	0	0	0
15. ALL OTHER ITEMS: MAINT TRAF., TRAINING, MOBIL., ETC.	0	0	0	2,386
16. SUBTOTAL, LINE 4 THRU 15	0	0	0	49,058
17. CONSTRUCTION ENGINEERING & CONTINGENCIES, 15% OF LINE 16	0	0	0	7,359
18. TOTAL COSTS OF CONSTRUCTION, LINES 16 AND 17	0	0	0	56,417
19. TOTAL ESTIMATE COST, LINES 1, 2, 3 AND 18	0	0	0	56,592





I-15-1-(22) 23 R-IC
(42) 23-C (152 mi Rd, Str, Fence, Sign)

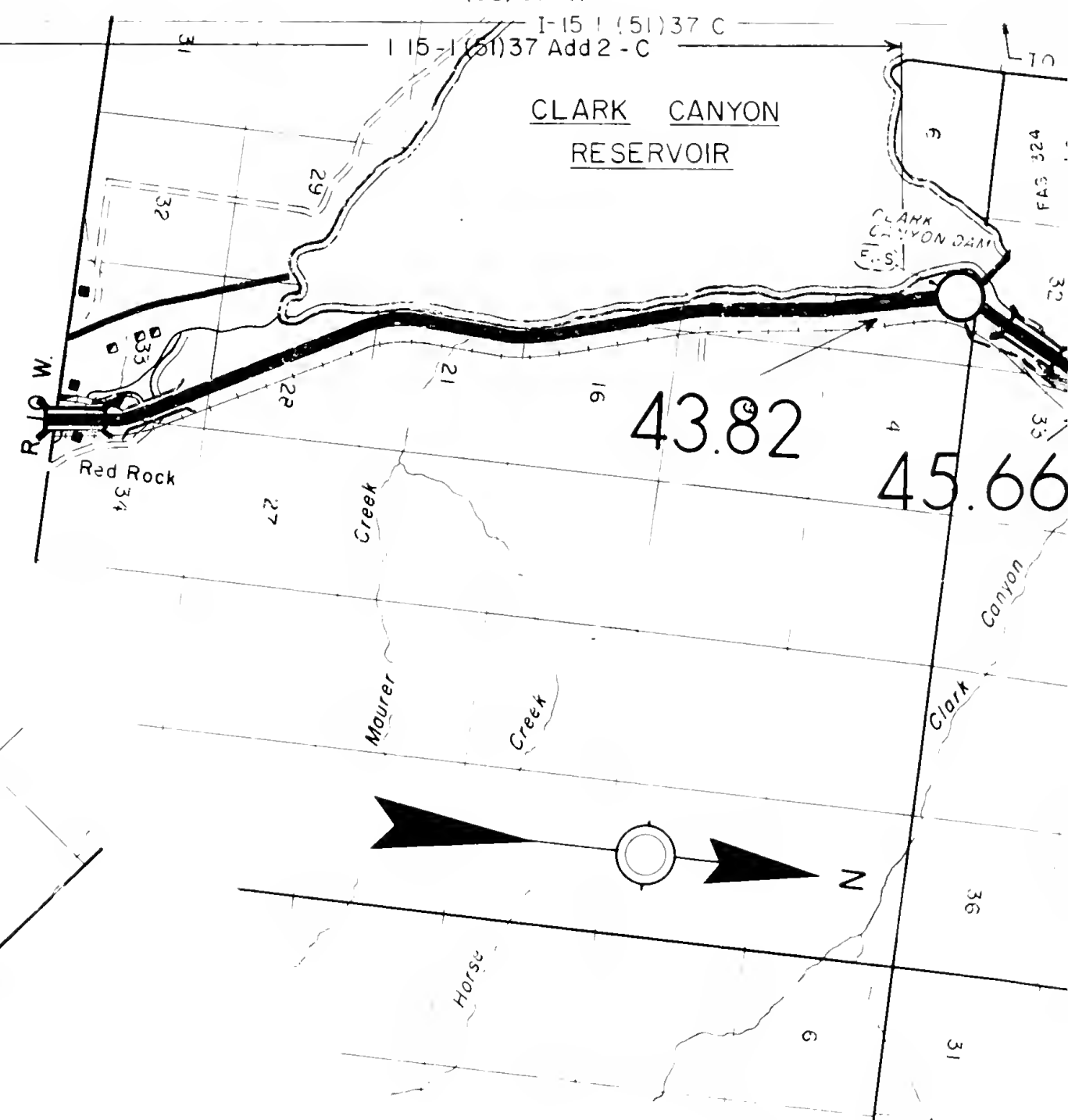


I 15-1(65)-PE,C

BEAVERHEAD
NATIONAL
FOREST

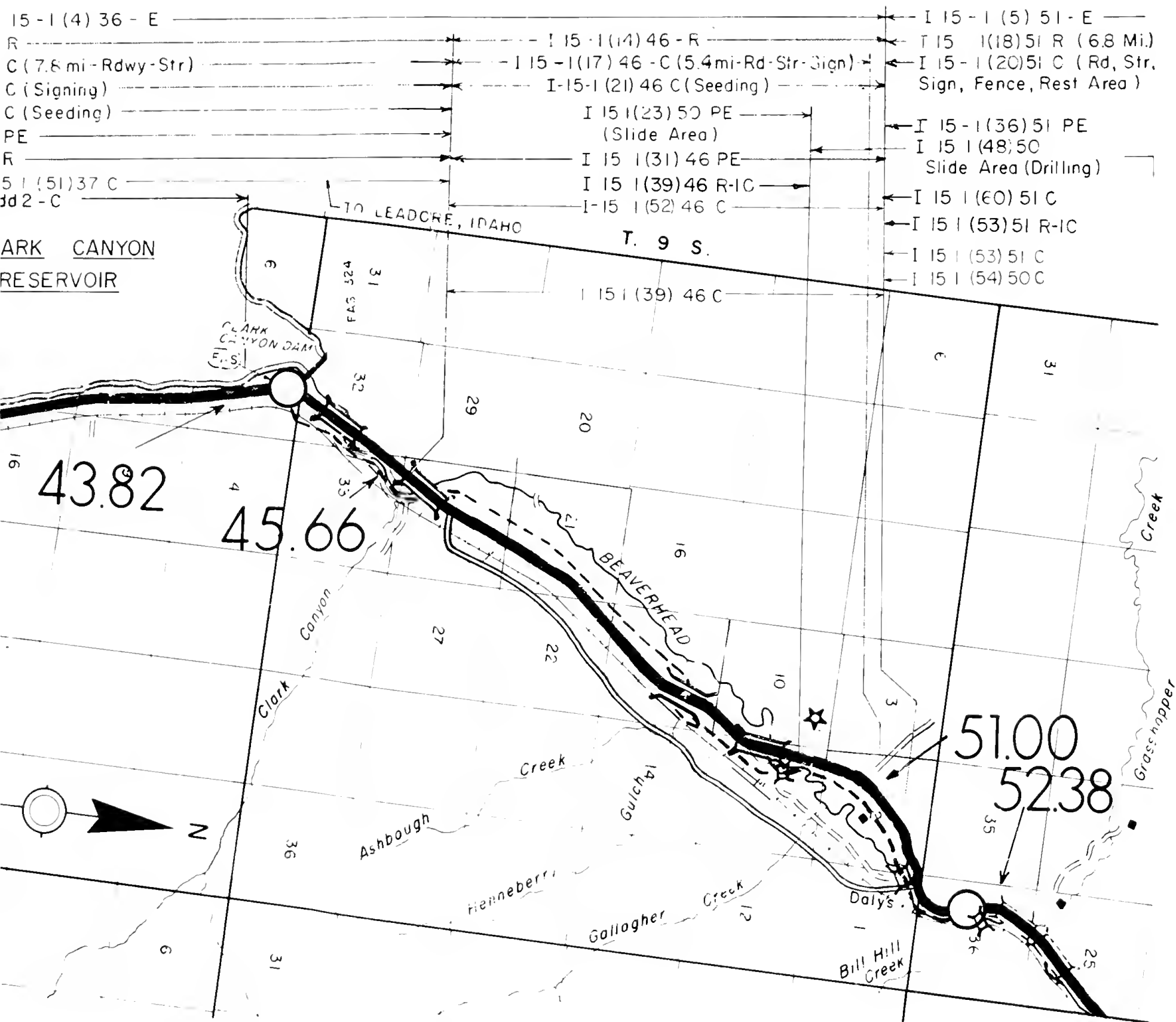
- I 15-1(4) 36 - E
- I 15-1(10) 37 - R
- I 15-1(11) 37 - C (7.6 mi - Rdwy - Str)
- I 15-1(15) 37 - C (Signing)
- I 15-1(16) 37 - C (Seeding)
- I 15 1(32) 37 PE
- I 15 1(38) 37 R

CLARK CANYON
RESERVOIR



I-15-1(51) 37 C
I 15-1(51) 37 Add 2 - C

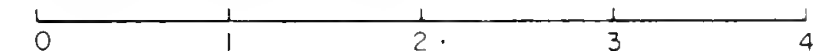
CLARK CANYON DAM
E.S.



LEGEND FOR INTERSTATE ROUTES

- INTERSTATE LOCATION STEP 4-5
- INTERSTATE LOCATION STEP 1-2-3
- INTERCHANGE
- HIGHWAY GRADE SEPARATION - NO CONNECTION
- RAILROAD GRADE SEPARATION
- COMBINATION HIGHWAY-RAILROAD GRADE SEPARATION
- OTHER BRIDGE
- TUNNEL
- TOLL BRIDGE, TUNNEL, HIGHWAY OR COMBINATION
- FRONTAGE ROAD
- TERMINATED CROSS ROAD
- INTERSECTION AT-GRADE
- URBAN AREA BOUNDARY
- POST MILEAGE
- ROUTE SECTIONS

SCALE IN MILES



MONTANA

INTERSTATE ROUTE 15

Sheet 1 of 8

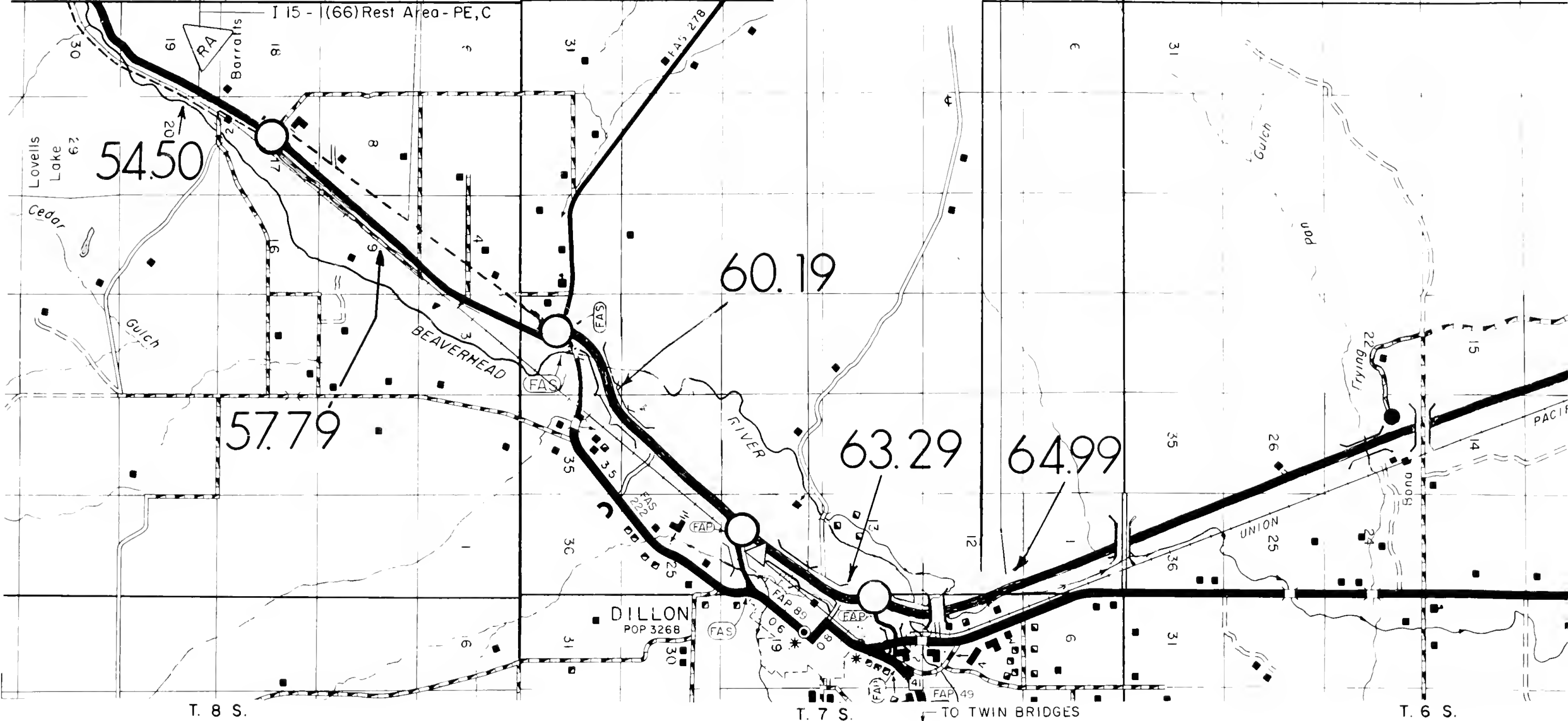
Date DECEMBER 31, 1975

I-15 - I (5) 51 - PE
J-15 - I (20) 51-C (Rd, Str, Sign, Fence, Rest Area)
I-15 - I (18) 51-R (6.8 mi)
LSI 15-I(1) 53 C (Rest Area)

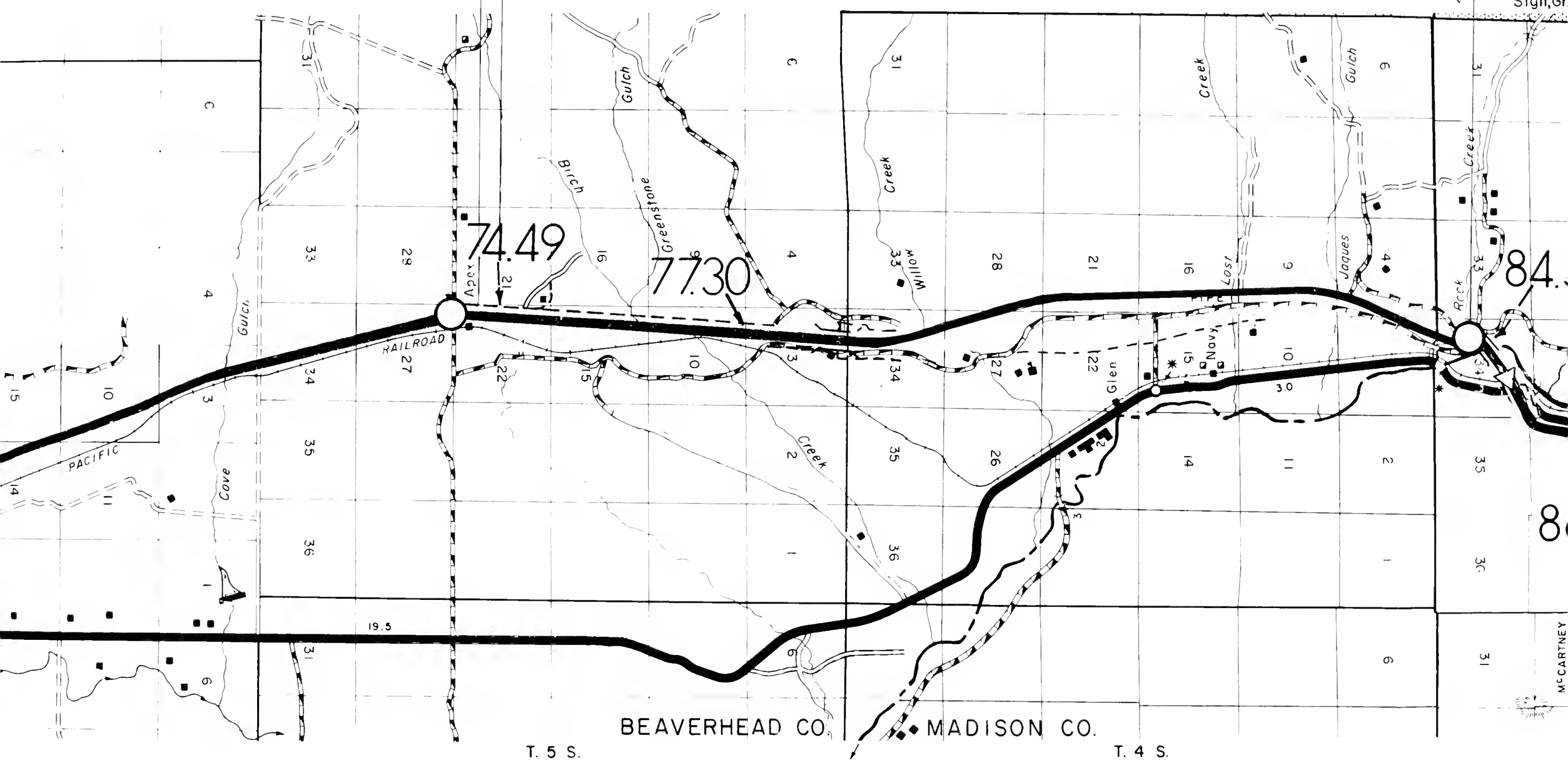
I 15-I (25) 64 R
I-15-I (29) 64 (Grade, Str., Fence)
I 15 I (58) 64 (Surf, Sign, Gr Rail, Er. C)

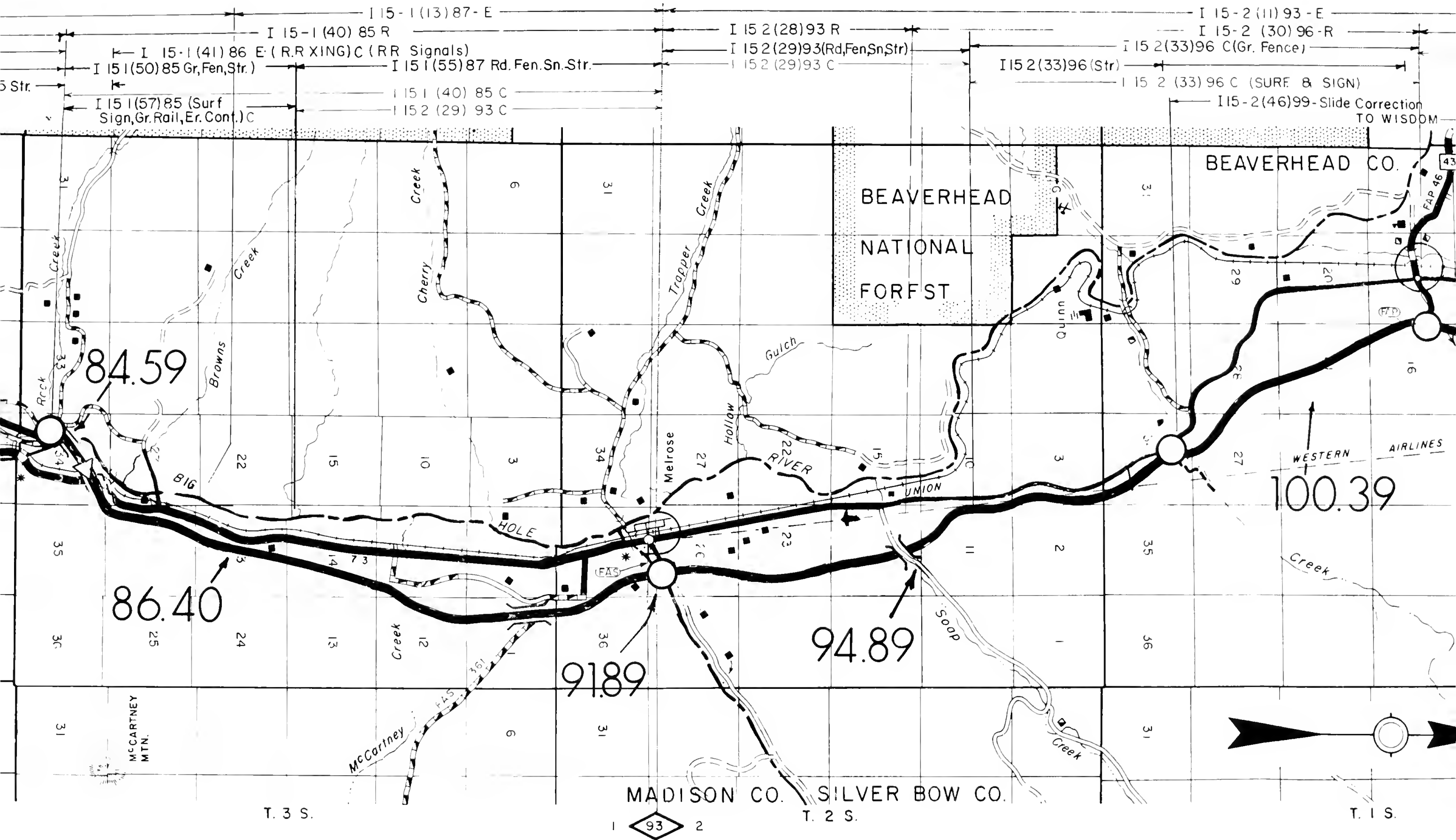
I 15-I (36) 51 PE
I 15-I (54) 50 C
I 15-I (26) 58 R
TO WISDOM
I 15-I (27) 58 C

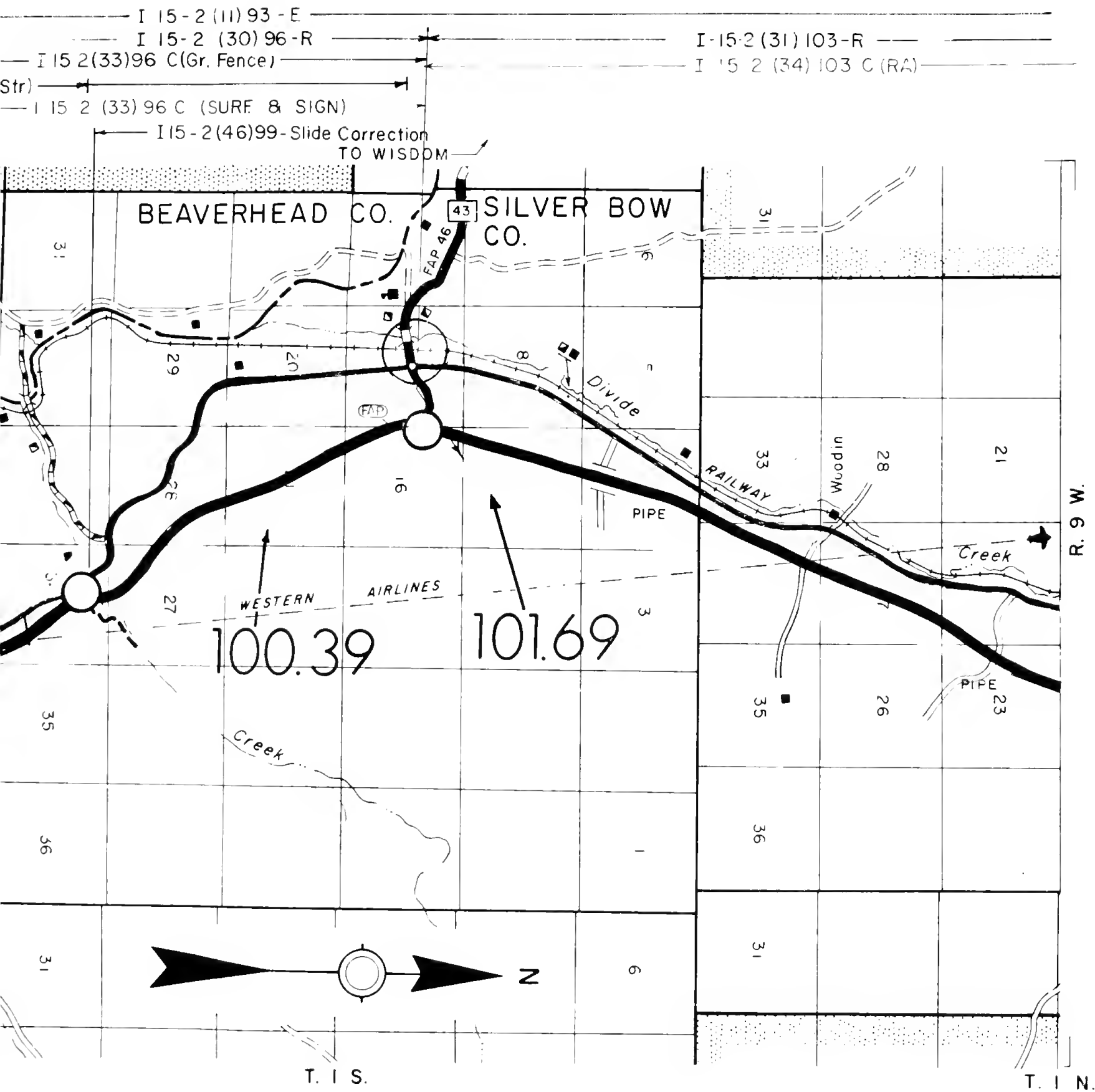
I 15 I (49) 62 Rd-Str
I 15 I (49) 62 C



I-IG 15 - I (6) 65 - E
64 R
Str., Fence)
gn, Gr Rail, Er. Cont.)
I 15 - I (28) 75 - R
I 15 I (30) 75 (Gr, Str, Fence)
I 15 I (59) 75 (Surf. Sign Gr. Rail Er. Cont.)
I 15 I (56) 85 Str.
I 15 I (50)
I 15 I (5)
Sign, Gr



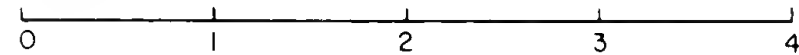




LEGEND FOR INTERSTATE ROUTES

- INTERSTATE LOCATION STEP 4 - 5
- INTERSTATE LOCATION STEP 1 - 2 - 3
- INTERCHANGE
- HIGHWAY GRADE SEPARATION - NO CONNECTION
- RAILROAD GRADE SEPARATION
- COMBINATION HIGHWAY-RAILROAD GRADE SEPARATION
- OTHER BRIDGE
- TUNNEL
- TOLL BRIDGE, TUNNEL, HIGHWAY OR COMBINATION
- FRONTAGE ROAD
- TERMINATED CROSS ROAD
- INTERSECTION AT-GRADE
- URBAN AREA BOUNDARY
- POST MILEAGE
- ROUTE SECTIONS

SCALE IN MILES

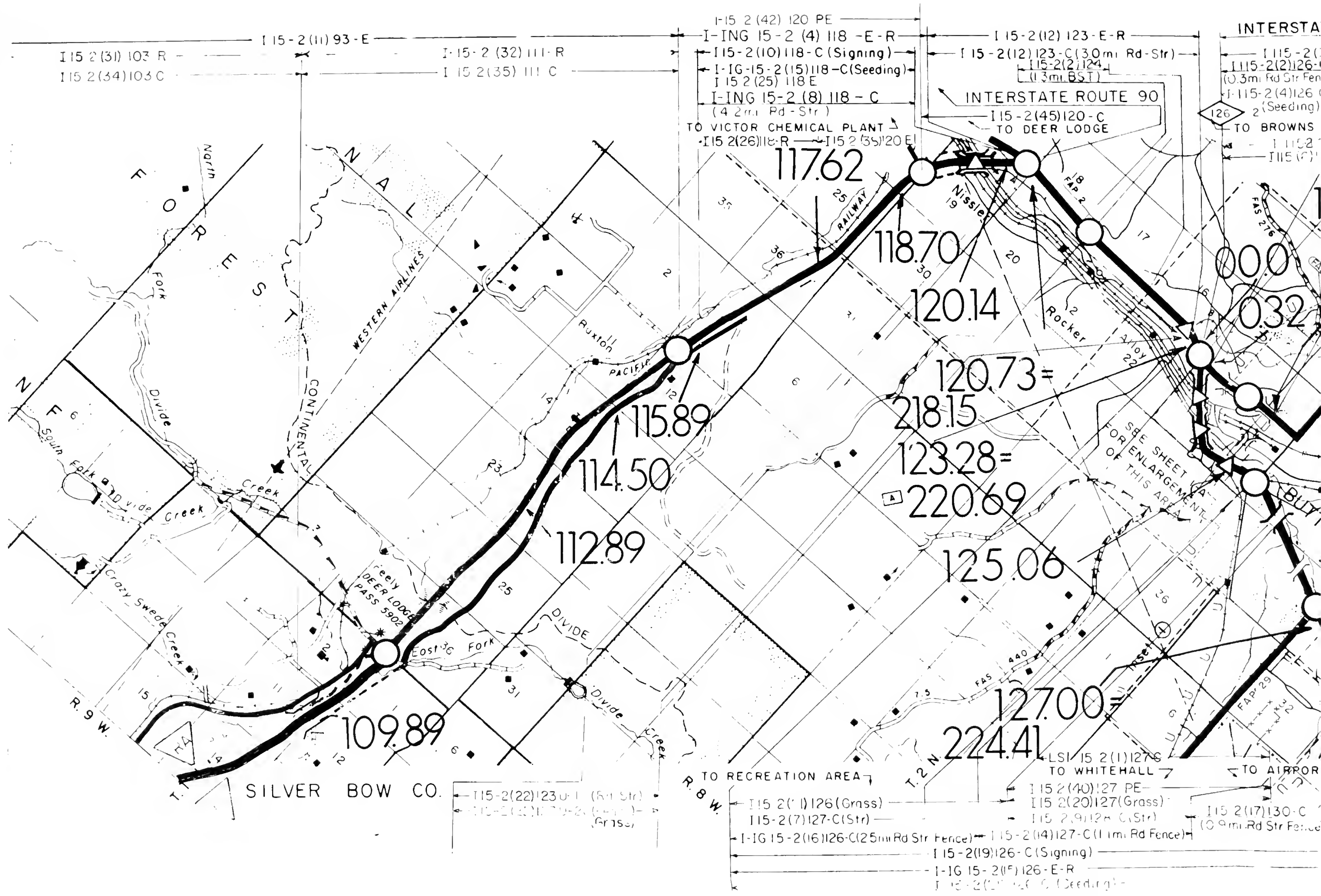


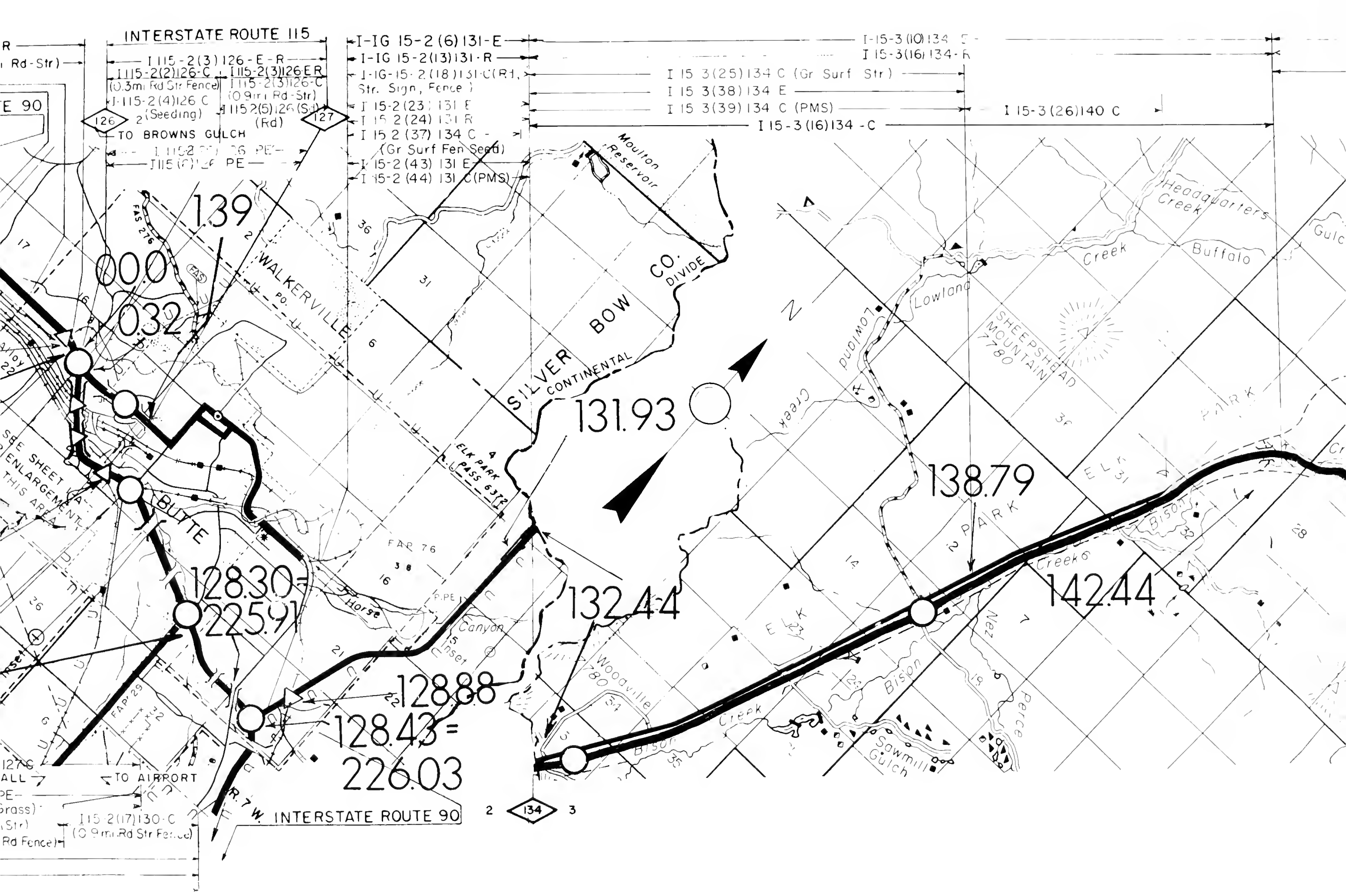
MONTANA

INTERSTATE ROUTE 15

Sheet 2 of 8

Date DECEMBER 31, 1975





INTERSTATE ROUTE 115

Rd-Str)

E 90

I-IG 15-2(6)131-E

I-IG 15-2(13)131-R

I-IG 15-2(18)131-C(R1,

Str. Sign, Fence)

I 15-2(23)131 E

I 15-2(24)131 R

I 15-2(37)134 C -

(Gr Surf Fen Seed)

I 15-2(43)131 E

I 15-2(44)131 C(PMS)

I-15-3(10)134 E

I 15-3(16)134-R

I 15-3(25)134 C (Gr Surf Str)

I 15-3(38)134 E

I 15-3(39)134 C (PMS)

I 15-3(16)134 -C

I 15-3(26)140 C

139

000

032

131.93

138.79

128.30

225.91

132.44

142.44

128.88

128.43

226.03

W. INTERSTATE ROUTE 90

I 15-2(17)130-C

(0.9mi Rd Str Fence)

127.8

ALL

PE-

(Grass)

(Str)

Rd Fence)

SEE SHEET FOR
ENLARGEMENT
THIS AREA

BUTTE

WALKERVILLE

SILVER BOW
CONTINENTAL

CO. DIVIDE

Moulton
Reservoir

Lowland

SHEEPSHEAD
MOUNTAIN
7780

Headquarters
Creek

Buffalo

PARK

ELK

Bison

Creek

Nez

Bison

Sawmill
Gulch

Woodville

Canyon

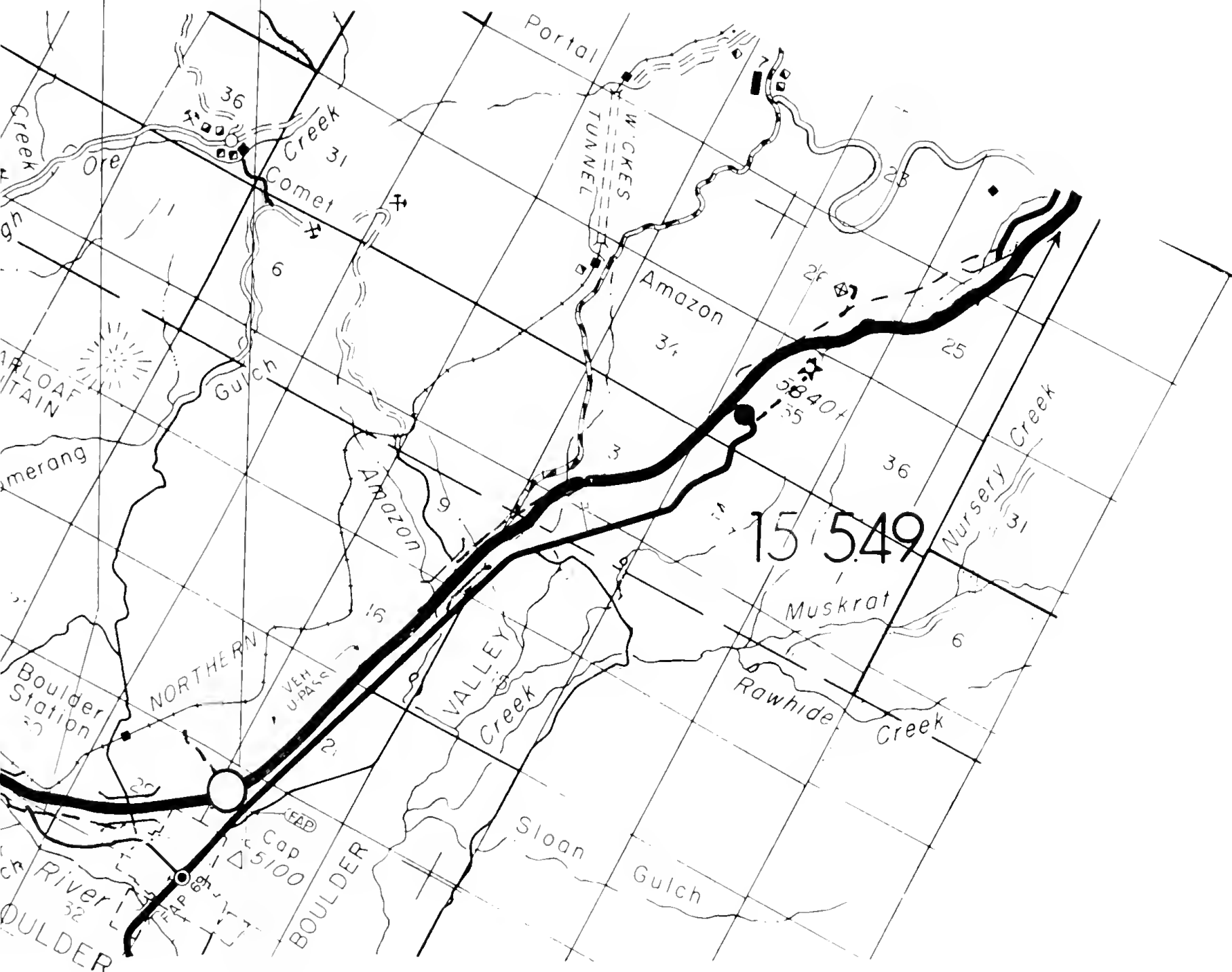
FAR 76

Horse

TO AIRPORT

TO BROWNS GULCH

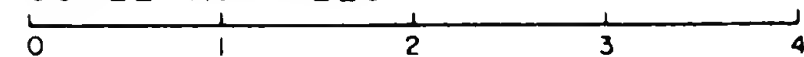
E --- I 15-3(2) 155 --- I 15-3(3) 157 E
 R --- I 15-3(14) 155 R --- I 15-3(21) 162 (Gr Str) C
 (STR) --- I 15-3(31) 155 STR --- I 15-3(20) 155 C (Gr. Surf, PMB, Sn, Fn, Str) --- I 15-3(27) 162 (Surf Sn) C
 (STR) ---
 (STR) ---
 (STR) ---



LEGEND FOR INTERSTATE ROUTES

- INTERSTATE LOCATION STEP 4 - 5
- INTERSTATE LOCATION STEP 1 - 2 - 3
- INTERCHANGE
- HIGHWAY GRADE SEPARATION - NO CONNECTION
- RAILROAD GRADE SEPARATION
- COMBINATION HIGHWAY - RAILROAD GRADE SEPARATION
- OTHER BRIDGE
- TUNNEL
- TOLL BRIDGE, TUNNEL, HIGHWAY OR COMBINATION
- FRONTAGE ROAD
- TERMINATED CROSS ROAD
- INTERSECTION AT-GRADE
- URBAN AREA BOUNDARY
- POST MILEAGE
- ROUTE SECTIONS

SCALE IN MILES



MONTANA

INTERSTATE ROUTE 15

Sheet 3 of 8

Date DECEMBER 31, 1975

INTERSTATE ROUTE 115

(COMPLETE ROUTE ON THIS SHEET.)

RUN DATE: 08/02/84

1985 INTERSTATE COST ESTIMATE

LE15R85A
PAGE: 1

STATE: MONTANA

CODE: 30

ROUTE: I 090

TABLE B
DESIGN CLASSIFICATION AND COST ESTIMATE
BY ESTIMATE SECTION

ESTIMATE SECTION MILE POST

ITEM	.00	27.30	32.40	35.00	38.42	38.60
1. FINANCE CODE	20	22	22	20	21	21
2. SECTION LENGTH, MILES (0.01)	27.30	5.10	2.60	3.40	.20	1.60
3. CLASS: RURAL (R) OR URBAN AREA I.D. (NAME AND CODE)	000	R	R	000	R	R
4. MILEAGE INCREMENT: CODE (1, 2 OR 3)		1	1		1	1
5. ROUTE SIGNIFICANCE: CODE (N OR L)		N	N		N	N
6. DESIGN SPEED (V)		60	70		70	70
7. BASE YEAR TRAFFIC (1982 ADT)	0	3,090	3,090	0	3,860	3,860
8. TRAFFIC A. DESIGN YEAR (19) OR (20)		4	4		5	5
B. ADT DESIGN YEAR		5,920	5,920		7,620	7,620
C. DHV DESIGN YEAR		800	800		1,040	1,040
D. D. DIRECTION DISTRIBUTION FACTOR		55	55		55	55
E. T. % TRUCK DESIGN YEAR DHV		18	18		18	18
F. T. % TRUCK DESIGN YEAR (ADT)		24	24		24	24
9. NO. LANES TO BE CONSTRUCTED THIS ESTIMATE		0	0		0	0
10. ULTIMATE NO. THROUGH TRAFFIC LANES		4	4		4	4
11. TYPICAL CROSS SECTION REFERENCE		30	30		30	50
12. RIGHT-OF-WAY WIDTH: PREVAILING		300	300		400	300
13. MEDIAN WIDTH: PREVAILING		68	46		168	68
14. DEVELOPMENT DEC. 31, 1983 (PR-511)		3A20	3A20		3A20	3A20
WORK CLASSIFICATION						
1. PRELIMINARY ENGINEERING		10	5		0	0
2. RIGHT-OF-WAY A. ACQUISITION		0	0		0	0
B. RELOCATION		0	0		0	0
3. UTILITY ADJUSTMENT		0	0		0	0
4. EROSION CONTROL, CLEAR, GRUB, GRADE, DRAIN, MINOR STR.		0	0		4	34
5. SUBBASE; BASE; SURFACING; SHOULDERS		2,203	1,134		99	840
6. R.R. GRADE SEPARATIONS		0	0		0	0
7. HIGHWAY GRADE SEPARATIONS WITHOUT RAMPS		0	0		0	0
8. INTERCHANGES		0	0		0	0
9. OTHER BRIDGES, TUNNELS AND WALLS		417	215		0	0
10. TRAFFIC CONTROL DEVICES		183	94		1	6
11. WEIGH STATIONS, PEDESTRIAN AND BICYCLE FACILITIES	0	0	0	0	0	0
12. SAFETY WORK ON COMPLETED SECTIONS	0	0	0	0	0	0
13. NOISE ABATEMENT MEASURES	0	0	0	0	0	0
14. ROADSIDE IMPROVEMENTS A. LANDSCAPING PLANTING	0	0	0	0	0	0
B. REST AREAS AND OVERLOOKS	0	0	0	0	0	0
15. ALL OTHER ITEMS: MAINT TRAF., TRAINING, MOBIL., ETC.	0	178	92	0	5	47
16. SUBTOTAL, LINE 4 THRU 15	0	2,981	1,535	0	109	927
17. CONSTRUCTION ENGINEERING & CONTINGENCIES, 15% OF LINE 16	0	447	230	0	16	139
18. TOTAL COSTS OF CONSTRUCTION, LINES 16 AND 17	0	3,428	1,765	0	125	1,066
19. TOTAL ESTIMATE COST, LINES 1, 2, 3 AND 18	0	3,438	1,770	0	125	1,066

ESTIMATED COSTS (1,000 DOLLARS)

RUN DATE: 08/02/84

1985 INTERSTATE COST ESTIMATE

LE15R85A
PAGE: 2

STATE: MONTANA

CODE: 30

ROUTE: I 090

TABLE 8
DESIGN CLASSIFICATION AND COST ESTIMATE
BY ESTIMATE SECTION

ESTIMATE SECTION MILE POST

ITEM	40.20	43.10	142.64	248.30	339.43	348.76
1. FINANCE CODE	21	20	20	20	22	20
2. SECTION LENGTH, MILES (0.01)	2.90	99.60	97.80	91.10	9.30	99.10
3. CLASS: RURAL (R) OR URBAN AREA I.D. (NAME AND CODE)	R	000	000	000	R	000
4. MILEAGE INCREMENT: CODE (1,2 OR 3)	1				1	
5. ROUTE SIGNIFICANCE: CODE (N OR L)	N				N	
6. DESIGN SPEED(V)	70				70	
7. BASE YEAR TRAFFIC (1982 ADT)	3,860	0	0	0	4,440	0
8. TRAFFIC A. DESIGN YEAR (19) OR (20)	5				5	
B. ADT DESIGN YEAR	7,620				9,800	
C. OHV DESIGN YEAR	1,040				1,200	
D. D. DIRECTION DISTRIBUTION FACTOR	55				55	
E. T. % TRUCK DESIGN YEAR DHV	18				20	
F. T. % TRUCK DESIGN YEAR (ADT)	24				26	
9. NO. LANES TO BE CONSTRUCTED THIS ESTIMATE	0				2	
10. ULTIMATE NO. THROUGH TRAFFIC LANES	4				4	
11. TYPICAL CROSS SECTION REFERENCE	50				20	
12. RIGHT-OF-WAY WIDTH: PREVAILING	300				350	
13. MEDIAN WIDTH: PREVAILING	68				46	
14. DEVELOPMENT DEC. 31, 1983 (PR-511)	3A20				2A2F	

WORK CLASSIFICATION

ESTIMATED COSTS (1,000 DOLLARS)

1. PRELIMINARY ENGINEERING	0				40	
2. RIGHT-OF-WAY A. ACQUISITION	0				0	
B. RELOCATION	0				0	
3. UTILITY ADJUSTMENT	0				0	
4. EROSION CONTROL, CLEAR, GRUB, GRADE, DRAIN, MINOR STR.	62				3,531	
5. SUBBASE; BASE; SURFACING; SHOULDERS	1,532				4,508	
6. R.R. GRADE SEPARATIONS	0				0	
7. HIGHWAY GRADE SEPARATIONS WITHOUT RAMPS	0				563	
8. INTERCHANGES	0				1,330	
9. OTHER BRIDGES, TUNNELS AND WALLS	0				271	
10. TRAFFIC CONTROL DEVICES	11				471	
11. WEIGH STATIONS, PEDESTRIAN AND BICYCLE FACILITIES	0	0	0	0	0	0
12. SAFETY WORK ON COMPLETED SECTIONS	0	0	0	0	0	0
13. NOISE ABATEMENT MEASURES	0	0	0	0	0	0
14. ROADSIDE IMPROVEMENTS A. LANDSCAPING PLANTING	0	0	0	0	0	0
B. REST AREAS AND OVERLOOKS	0	0	0	0	0	0
15. ALL OTHER ITEMS: MAINT TRAF., TRAINING, MOBIL., ETC.	86	0	0	0	639	0
16. SUBTOTAL, LINE 4 THRU 15	1,691	0	0	0	11,313	0
17. CONSTRUCTION ENGINEERING & CONTINGENCIES, 15% OF LINE 16	254	0	0	0	1,697	0
18. TOTAL COSTS OF CONSTRUCTION, LINES 16 AND 17	1,945	0	0	0	13,010	0
19. TOTAL ESTIMATE COST, LINES 1, 2, 3 AND 18	1,945	0	0	0	13,050	0

RUN DATE: 08/02/84

1985 INTERSTATE COST ESTIMATE

LE15R85A
PAGE: 3

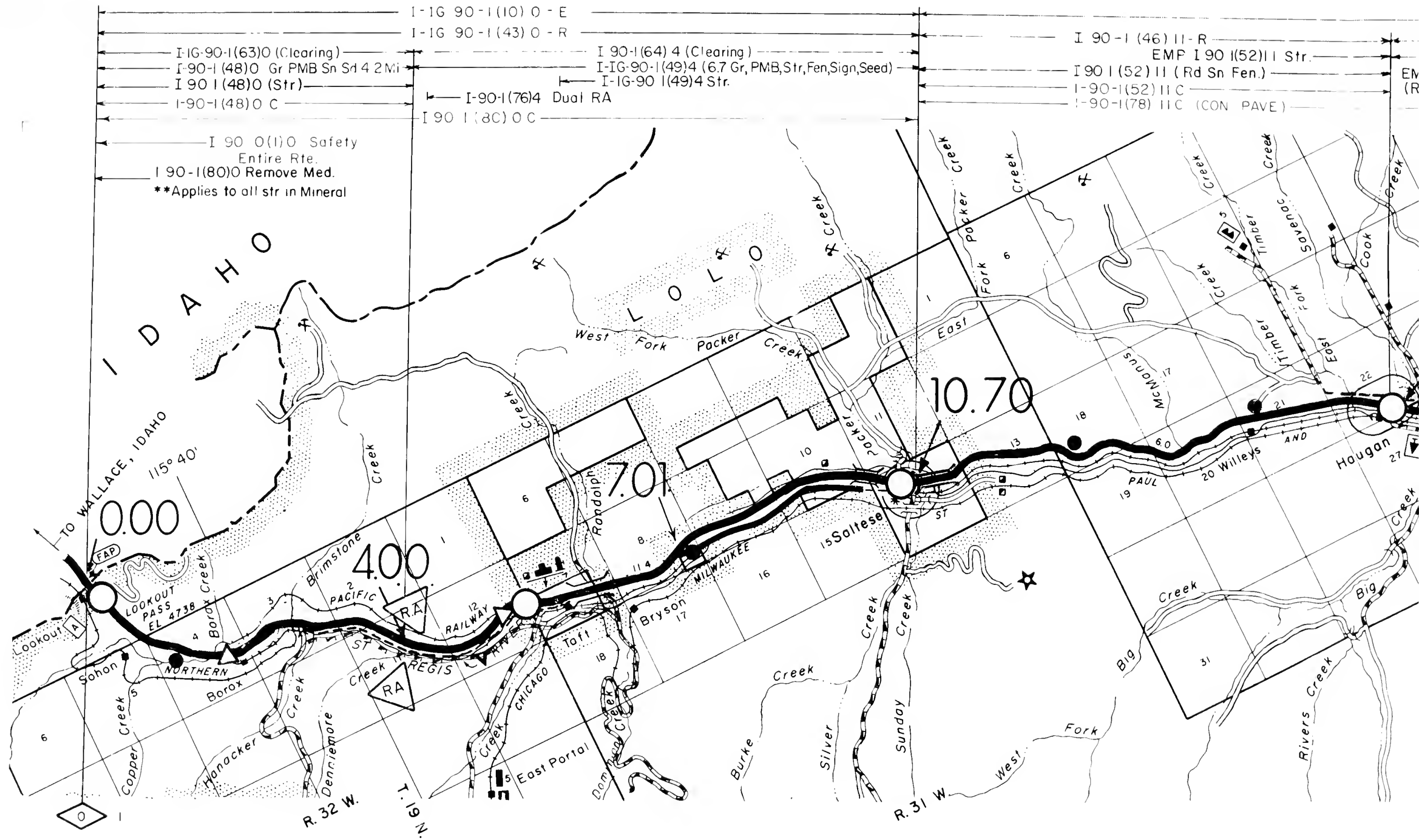
STATE: MONTANA

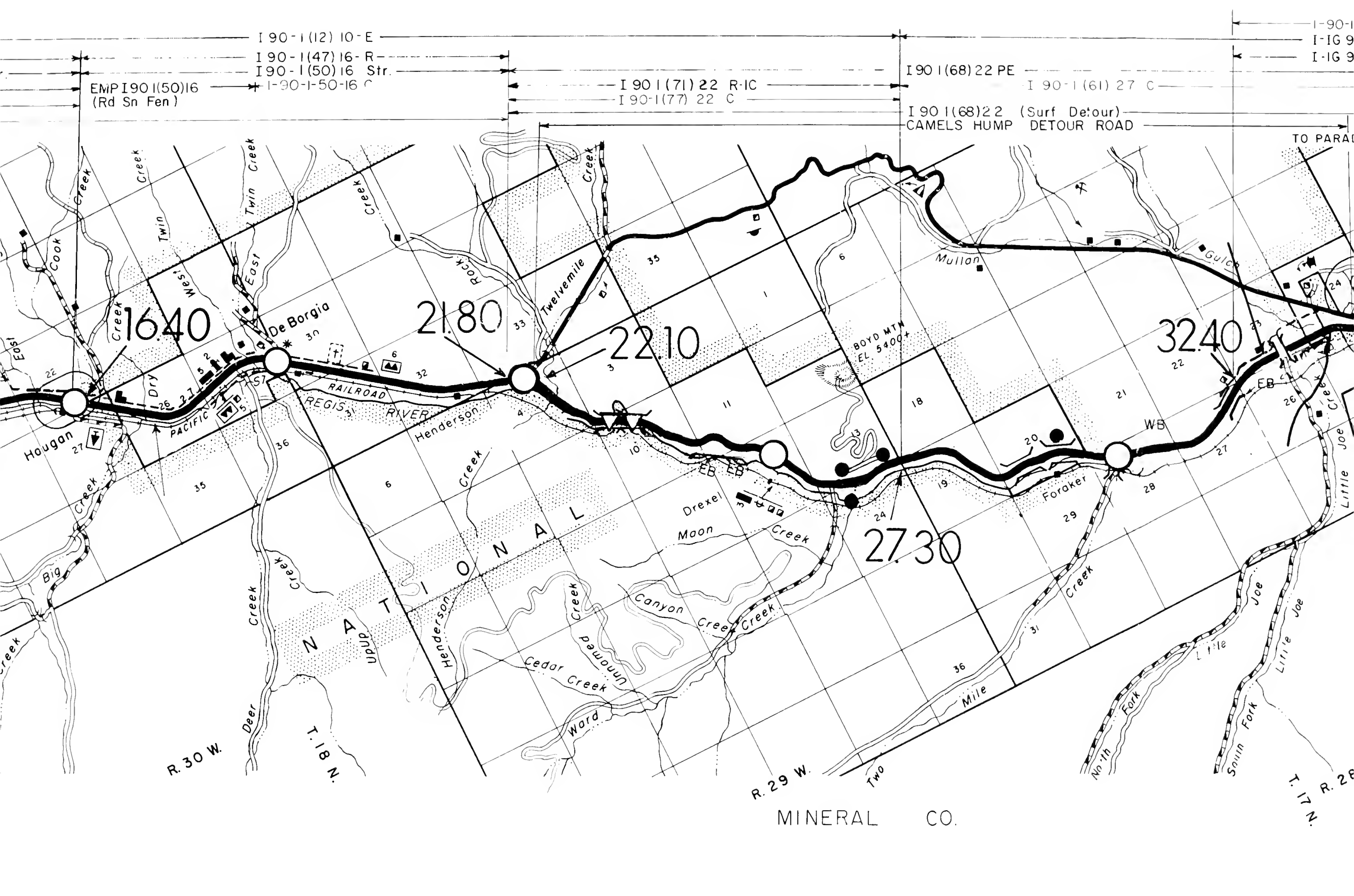
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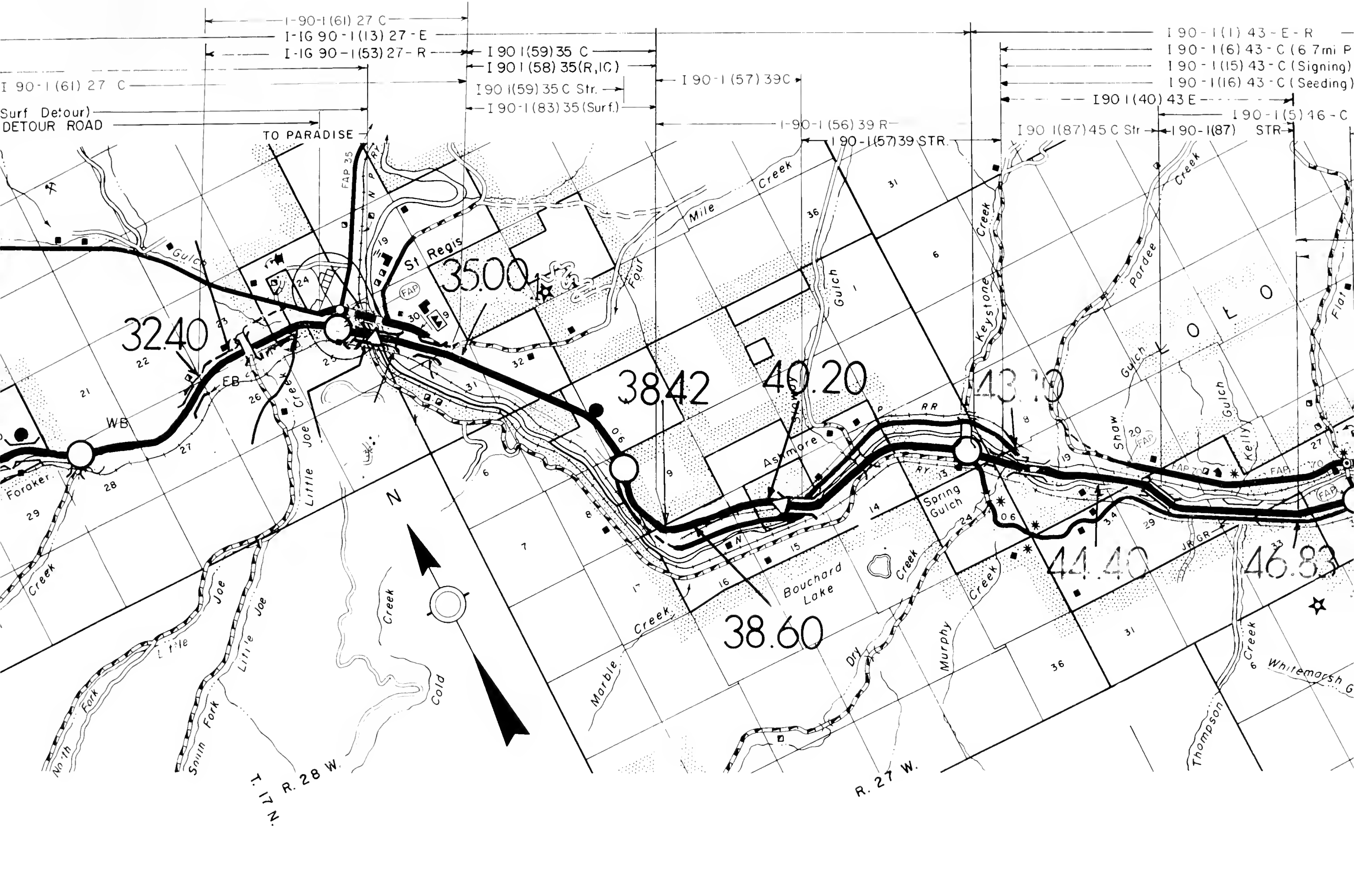
TABLE 8
DESIGN CLASSIFICATION AND COST ESTIMATE
BY ESTIMATE SECTION

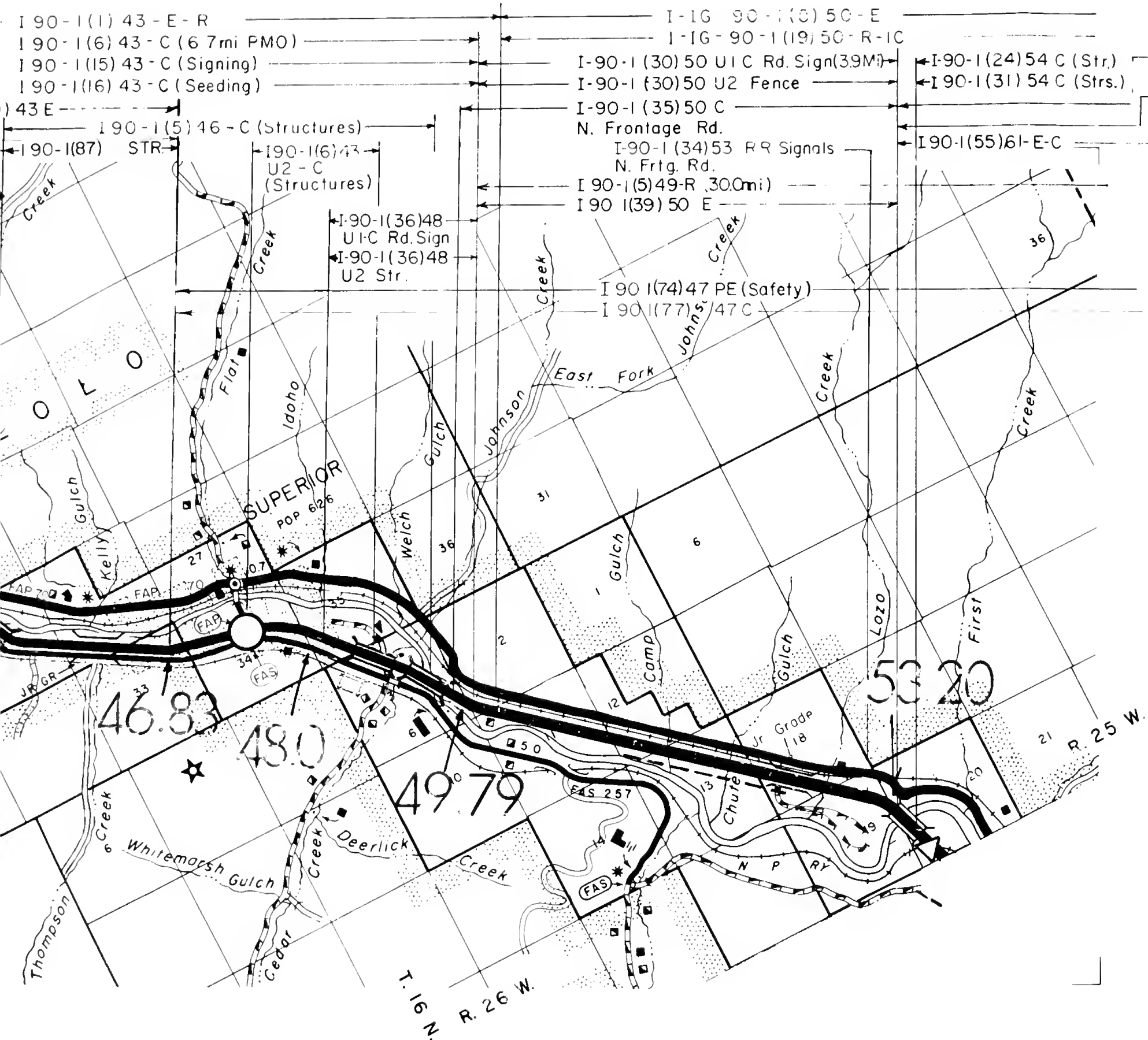
ROUTE: I 090

ITEM	ESTIMATE SECTION MILE POST				TOTAL
	447.80	515.29	525.30	527.09	
1. FINANCE CODE	20	21	21	20	
2. SECTION LENGTH, MILES (0.01)	69.00	10.00	1.80	22.90	543.70
3. CLASS: RURAL (R) OR URBAN AREA 1.0. (NAME AND CODE)	000	R	R	000	
4. MILEAGE INCREMENT: CODE (1,2 OR 3)		1	1		
5. ROUTE SIGNIFICANCE: CODE (N OR L)		N	N		
6. DESIGN SPEED (V)		70	70		
7. BASE YEAR TRAFFIC (1982 ADT)	0	2,020	2,020	0	
8. TRAFFIC A. DESIGN YEAR (19) OR (20)		5	5		
B. ADT DESIGN YEAR		6,200	6,200		
C. DHV DESIGN YEAR		800	800		
D. D. DIRECTION DISTRIBUTION FACTOR		55	55		
E. T. % TRUCK DESIGN YEAR DHV		9	9		
F. T. % TRUCK DESIGN YEAR (ADT)		16	16		
9. NO. LANES TO BE CONSTRUCTED THIS ESTIMATE		0	0		
10. ULTIMATE NO. THROUGH TRAFFIC LANES		4	4		
11. TYPICAL CROSS SECTION REFERENCE		30	30		
12. RIGHT-OF-WAY WIDTH: PREVAILING		400	400		
13. MEDIAN WIDTH: PREVAILING		68	68		
14. DEVELOPMENT DEC. 31, 1983 (PR-511)		1A3F	1A3F		
WORK CLASSIFICATION					
1. PRELIMINARY ENGINEERING		0	0		55
2. RIGHT-OF-WAY A. ACQUISITION		0	0		0
B. RELOCATION		0	0		0
3. UTILITY ADJUSTMENT		0	0		0
4. EROSION CONTROL, CLEAR, GRUB, GRADE, DRAIN, MINOR STR.		638	112		4,381
5. SUBBASE; BASE; SURFACING; SHOULDERS		2,728	481		13,525
6. R.R. GRADE SEPARATIONS		0	0		0
7. HIGHWAY GRADE SEPARATIONS WITHOUT RAMPS		0	0		563
8. INTERCHANGES		0	0		1,330
9. OTHER BRIDGES, TUNNELS AND WALLS		0	0		903
10. TRAFFIC CONTROL DEVICES		27	5		798
11. WEIGH STATIONS, PEDESTRIAN AND BICYCLE FACILITIES	0	0	0	0	0
12. SAFETY WORK ON COMPLETED SECTIONS	0	0	0	0	0
13. NOISE ABATEMENT MEASURES	0	0	0	0	0
14. ROADSIDE IMPROVEMENTS A. LANDSCAPING PLANTING	0	0	0	0	0
B. REST AREAS AND OVERLOOKS	0	0	0	0	0
15. ALL OTHER ITEMS: MAINT TRAF., TRAINING, MOBIL., ETC.	0	205	36	0	1,288
16. SUBTOTAL, LINE 4 THRU 15	0	3,598	634	0	22,788
17. CONSTRUCTION ENGINEERING & CONTINGENCIES, 15% OF LINE 16	0	540	95	0	3,418
18. TOTAL COSTS OF CONSTRUCTION, LINES 16 AND 17	0	4,138	729	0	26,206
19. TOTAL ESTIMATE COST, LINES 1, 2, 3 AND 18	0	4,138	729	0	26,261
ESTIMATED COSTS (1,000 DOLLARS)					





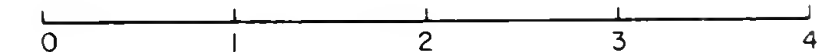




LEGEND FOR INTERSTATE ROUTES

- INTERSTATE LOCATION STEP 4-5
- INTERSTATE LOCATION STEP 1-2-3
- INTERCHANGE
- HIGHWAY GRADE SEPARATION - NO CONNECTION
- RAILROAD GRADE SEPARATION
- COMBINATION HIGHWAY-RAILROAD GRADE SEPARATION
- OTHER BRIDGE
- TUNNEL
- TOLL BRIDGE, TUNNEL, HIGHWAY OR COMBINATION
- FRONTAGE ROAD
- TERMINATED CROSS ROAD
- INTERSECTION AT-GRADE
- URBAN AREA BOUNDARY
- POST MILEAGE
- ROUTE SECTIONS

SCALE IN MILES

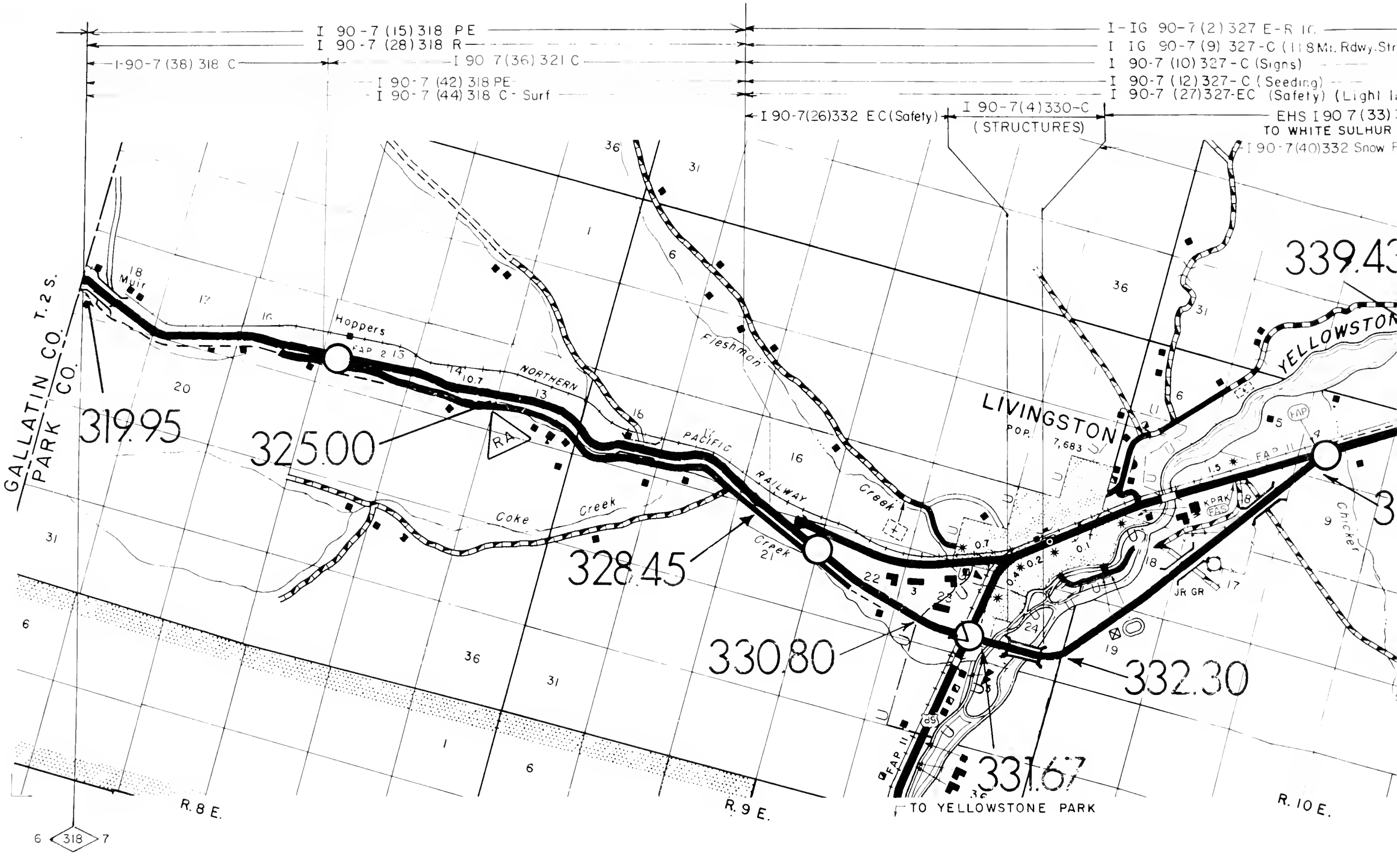


MONTANA

INTERSTATE ROUTE 90

Sheet 1 of 11

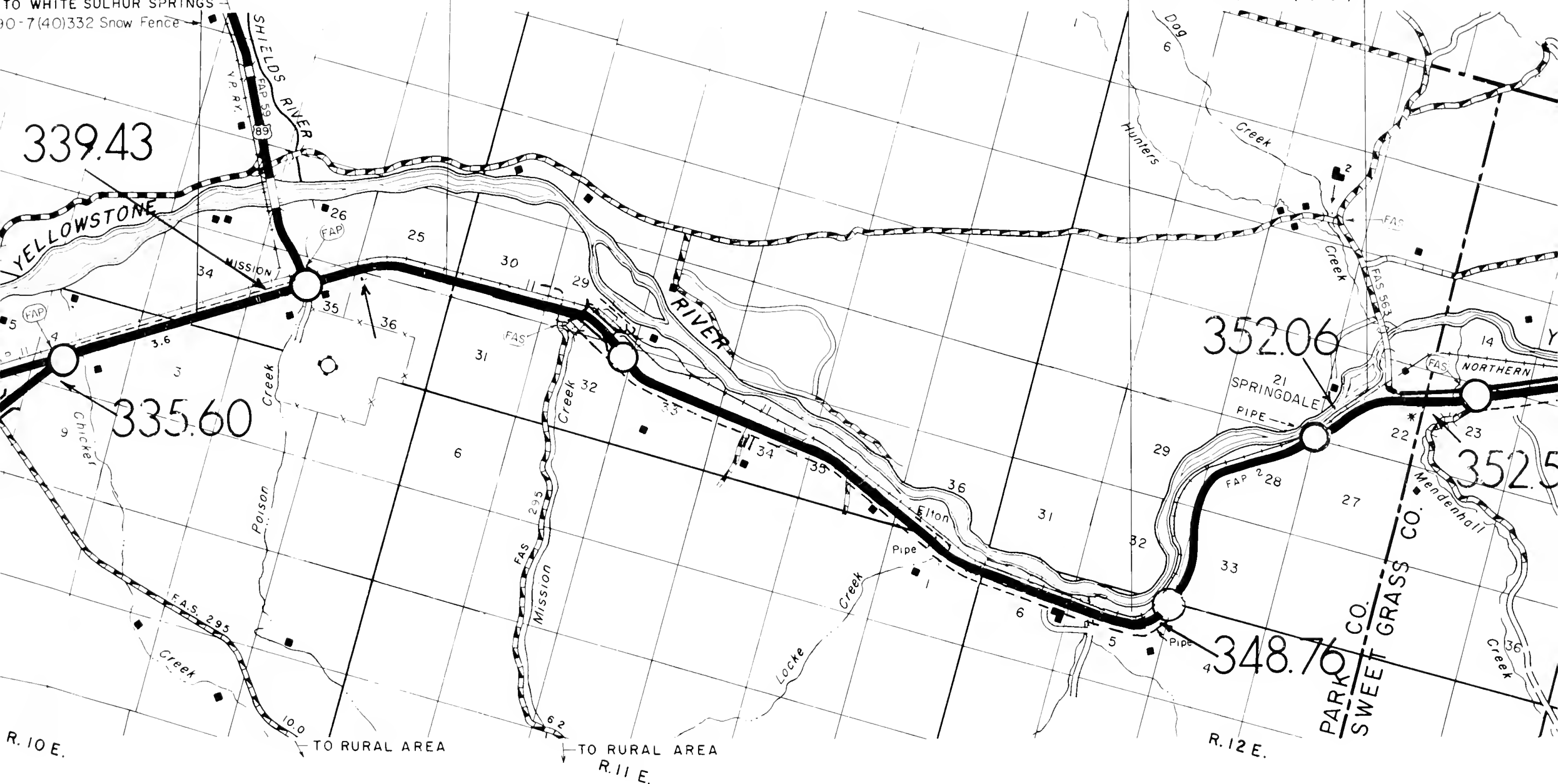
Date December 31, 1975



E-R 10.
-C (11.8 Mi. Rdwy. Str. Fence RR Line Change. Seal Coat)
Signs)
Seeding)
(Safety) (Light Intrgs)
- EHS I 90 7 (33) 327 (Safety)
TO WHITE SULHUR SPRINGS
90-7(40)332 Snow Fence

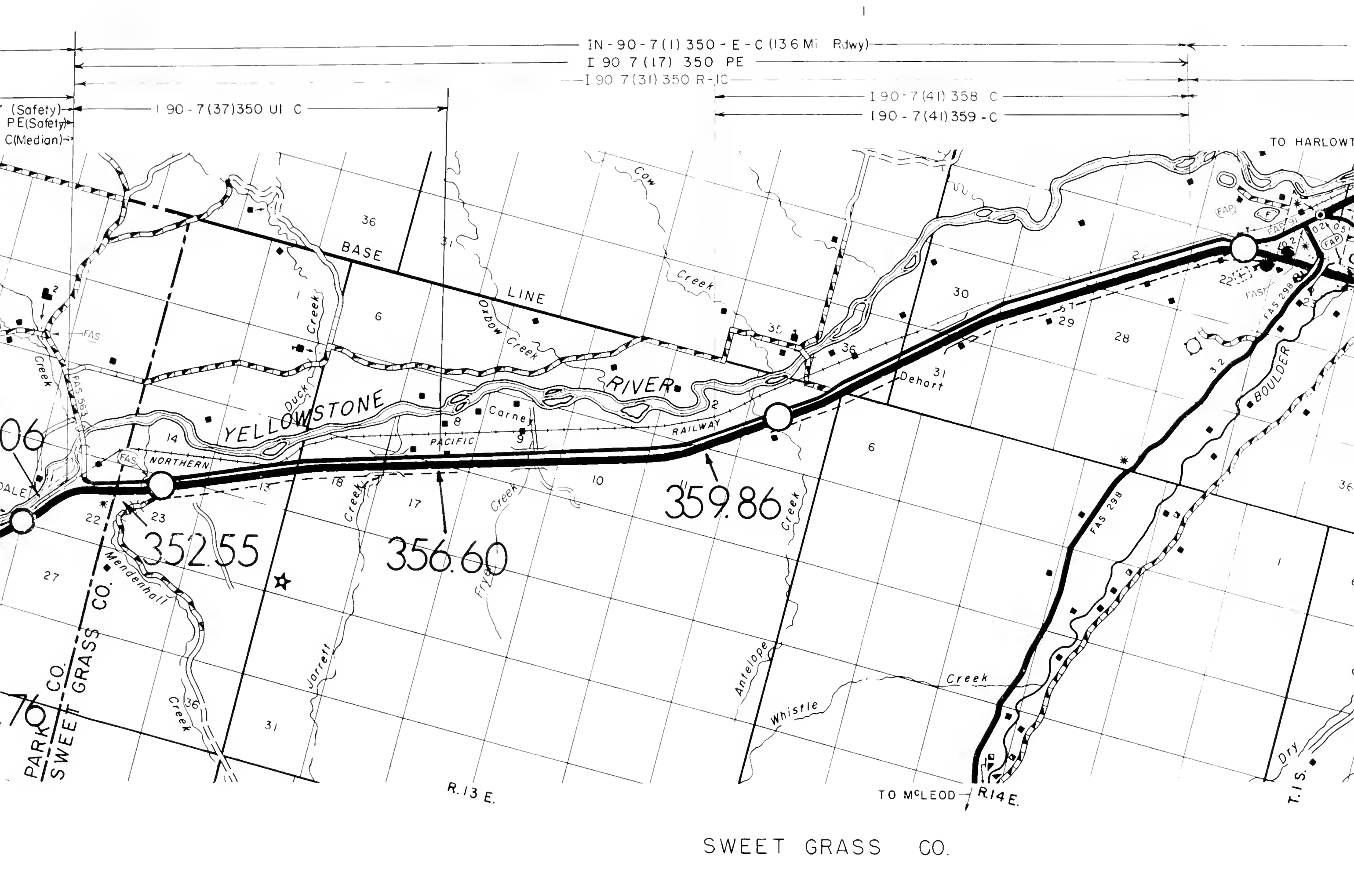
I-90-7(3)339 E-R-C(11.8 Mi. Rdwy Str)
I-90-7(5)339-C(SIGNING)
I-90-7(21)339 E
I 90 7 (27) 327 (Safety)
I-90-7(16)346 PE(Safety)
I-90-7(19)346 C(Median)

I 90-7(37)3



PARK CO.

SWEET GRASS CO.



IN-90-7(1) 350-E-C (136 Mi Rdwy)

I 90 7(17) 350 PE

I 90 7(31) 350 R-IC

I 90-7(41) 358 C

I 90-7(41) 359-C

(Safety)
PE(Safety)
C(Median)

I 90-7(37)350 UI C

TO HARLOWT

36
BASE

LINE

YELLOWSTONE

RIVER

RAILWAY

PACIFIC

NORTHERN

Dehart

BOULDER

Dry
T.I.S.

PARK
CO.
SWEET GRASS CO.

R.13 E.

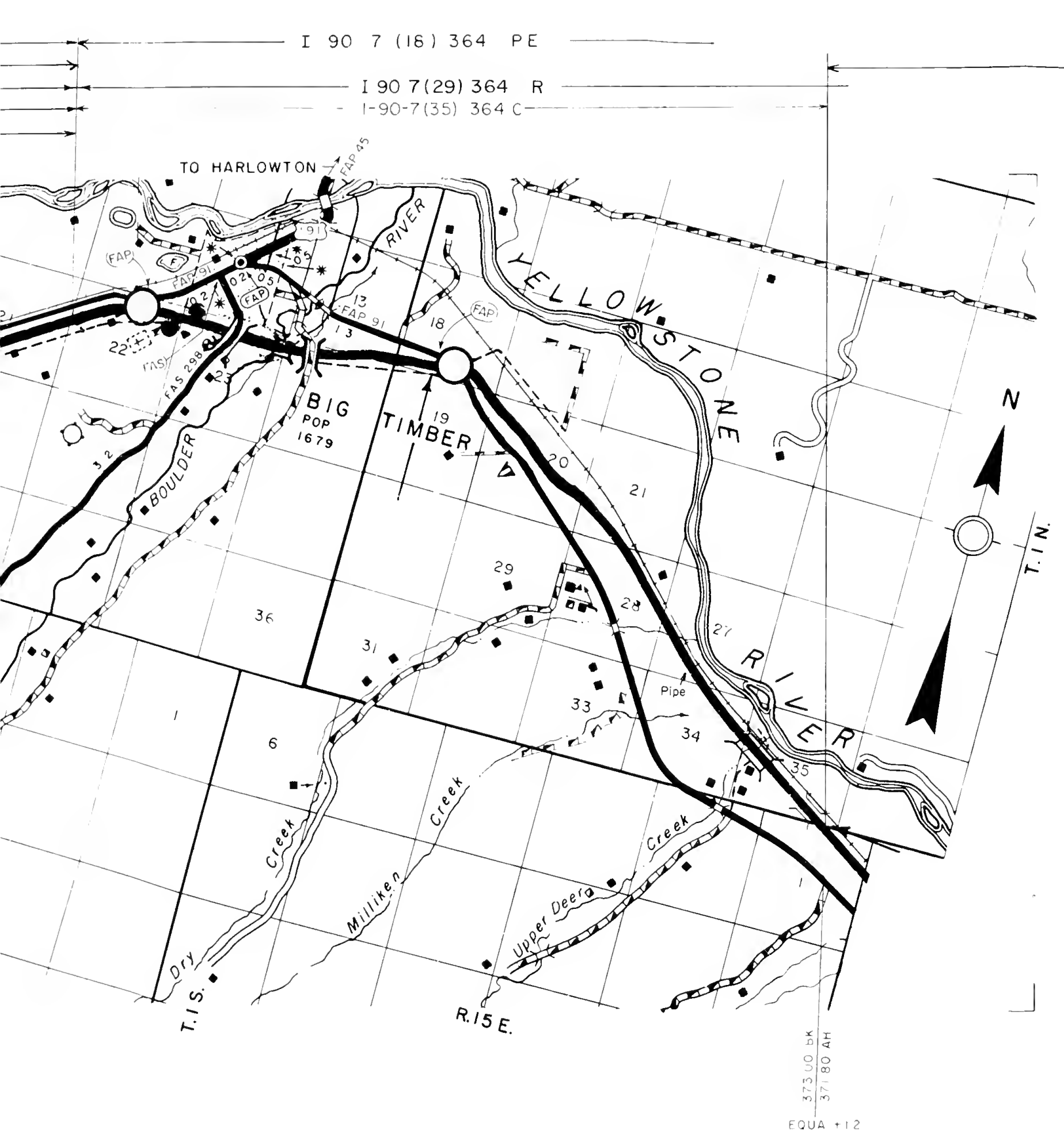
TO MCLEOD R.14 E.

SWEET GRASS CO.

359.86

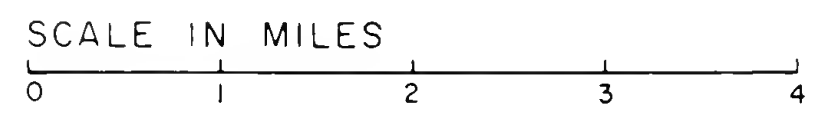
356.60

352.55



LEGEND FOR INTERSTATE ROUTES

- INTERSTATE LOCATION STEP 4-5
- INTERSTATE LOCATION STEP 1-2-3
- INTERCHANGE
- HIGHWAY GRADE SEPARATION - NO CONNECTION
- RAILROAD GRADE SEPARATION
- COMBINATION HIGHWAY-RAILROAD GRADE SEPARATION
- OTHER BRIDGE
- TUNNEL
- TOLL BRIDGE, TUNNEL, HIGHWAY OR COMBINATION
- FRONTAGE ROAD
- TERMINATED CROSS ROAD
- INTERSECTION AT-GRADE
- URBAN AREA BOUNDARY
- POST MILEAGE
- ROUTE SECTIONS



MONTANA

INTERSTATE ROUTE 90

Sheet 7 of 11

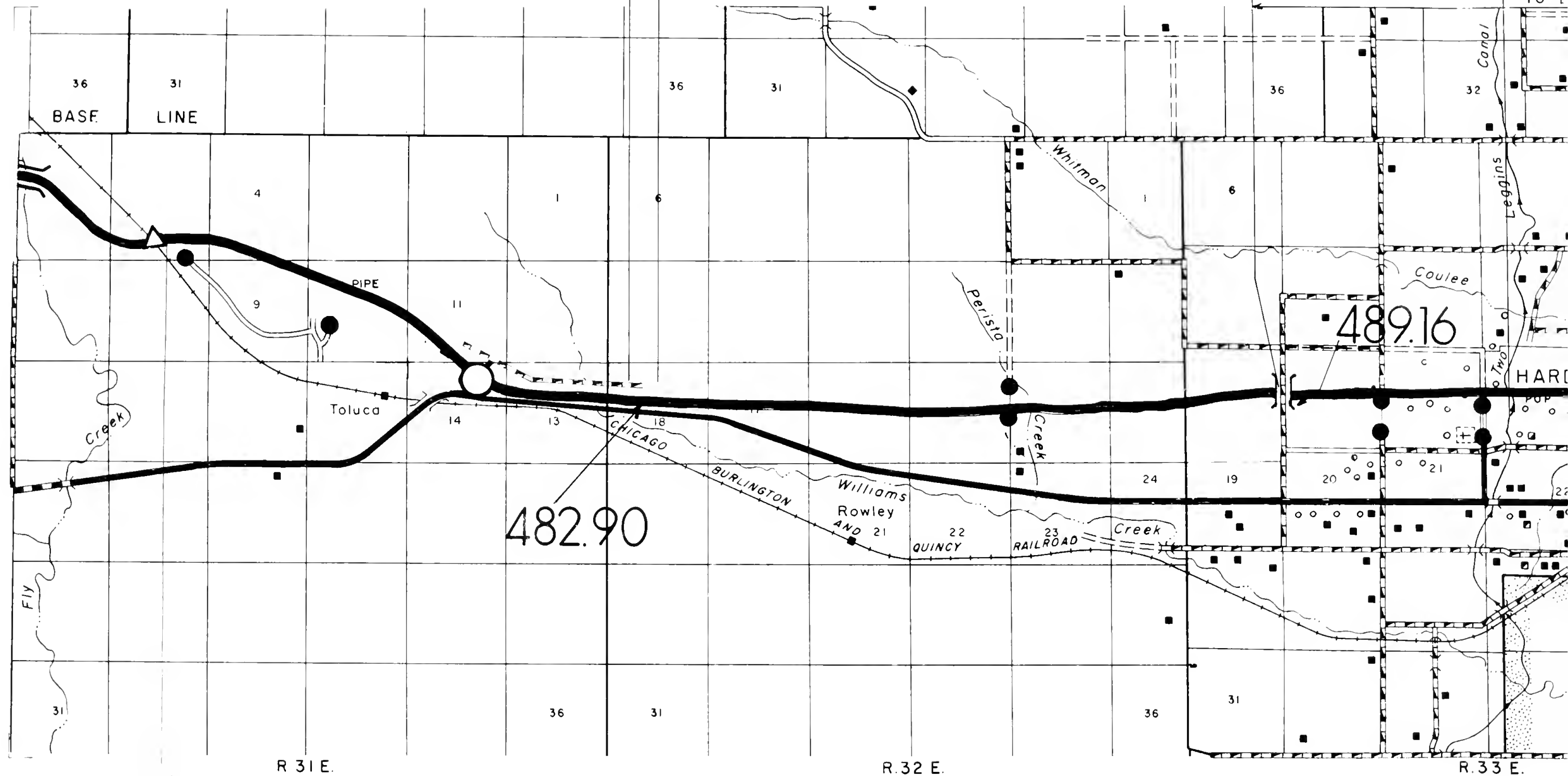
Date December 31, 1975

I-IG 90-9(8)471-E

I 90-9(15)483-R

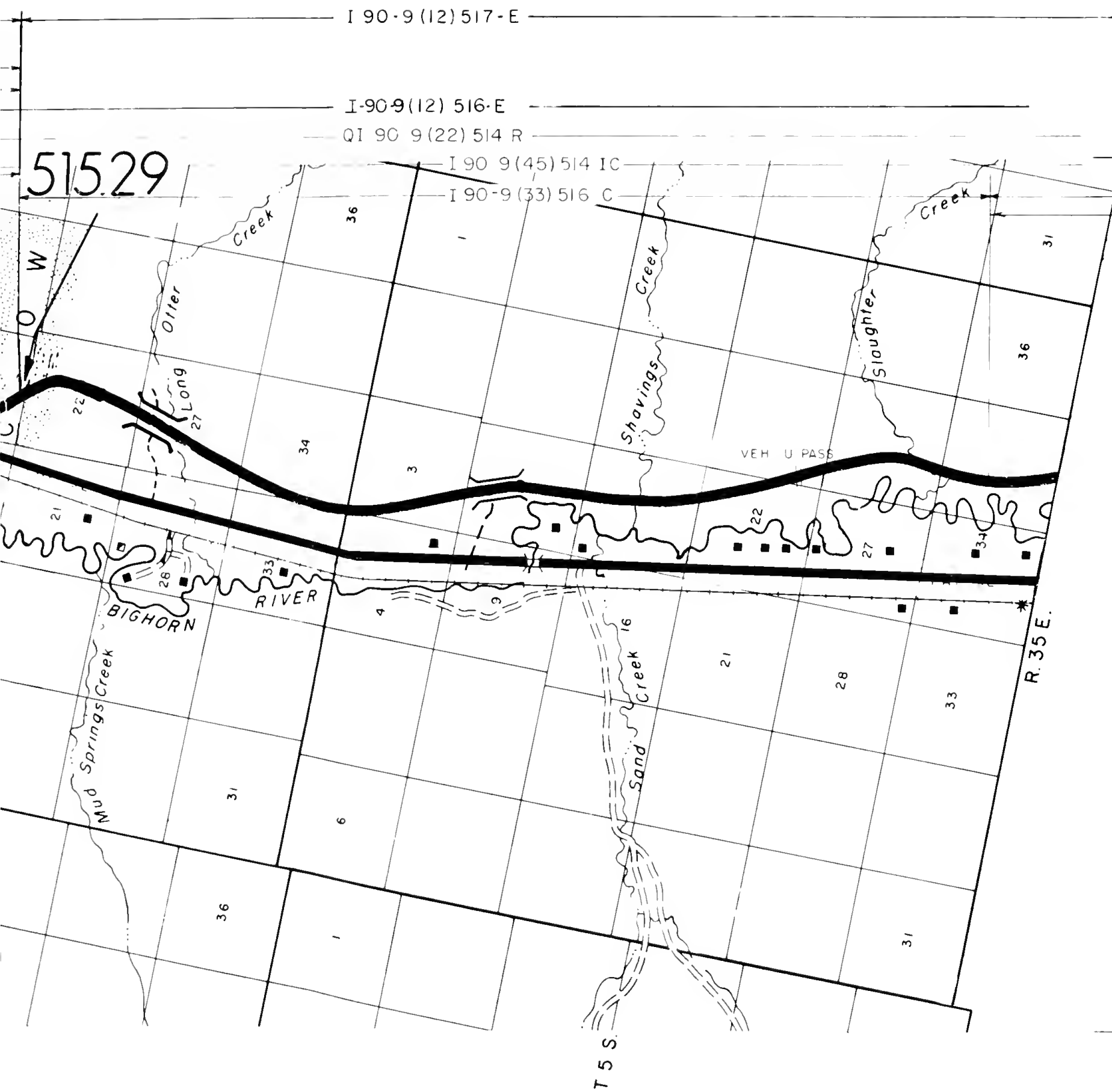
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I 90-9(30)483-C (Surf, Light, Sign)



47800 Br
47700 At

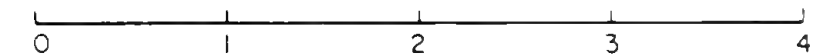
QUA 10



LEGEND FOR INTERSTATE ROUTES

- INTERSTATE LOCATION STEP 4-5
- INTERSTATE LOCATION STEP 1-2-3
- INTERCHANGE
- HIGHWAY GRADE SEPARATION - NO CONNECTION
- RAILROAD GRADE SEPARATION
- COMBINATION HIGHWAY-RAILROAD GRADE SEPARATION
- OTHER BRIDGE
- TUNNEL
- TOLL BRIDGE, TUNNEL, HIGHWAY OR COMBINATION
- FRONTAGE ROAD
- TERMINATED CROSS ROAD
- INTERSECTION AT-GRADE
- URBAN AREA BOUNDARY
- POST MILEAGE
- ROUTE SECTIONS

SCALE IN MILES

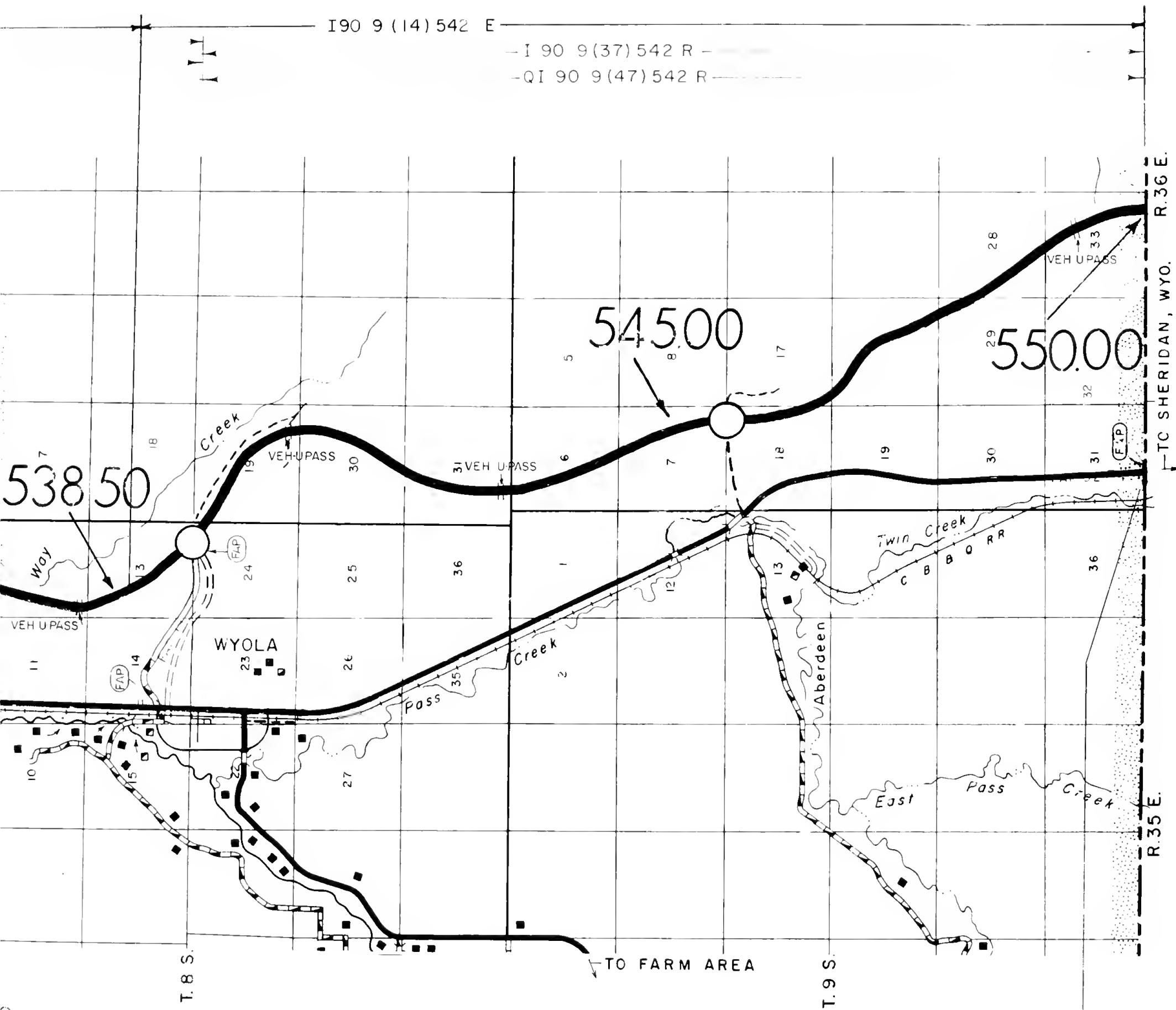


MONTANA

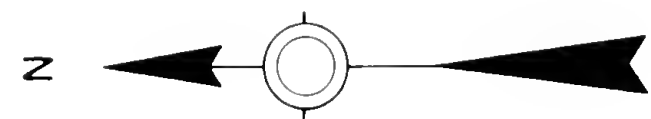
INTERSTATE ROUTE 90

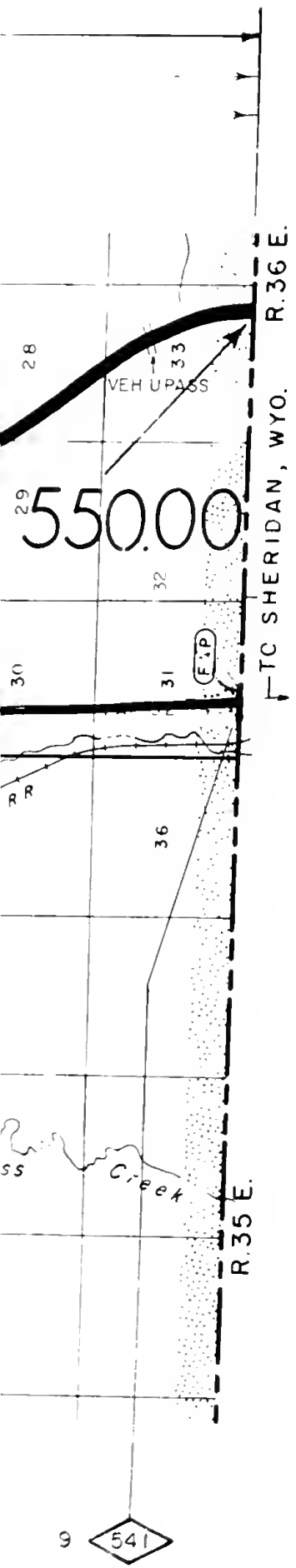
Sheet 10 of 11

Date December 31, 1975

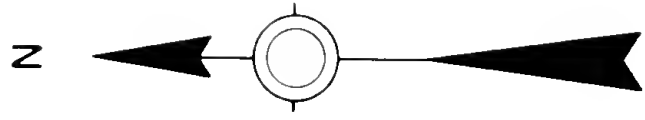


W Y O M I N G





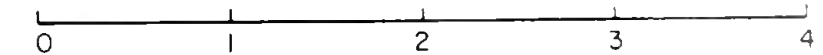
W Y O M I N G



LEGEND FOR INTERSTATE ROUTE 90

	INTERSTATE LOCATION STEP 4 & 5
	INTERSTATE LOCATION STEP 1, 2 & 3
	INTERCHANGE
	HIGHWAY GRADE SEPARATION - NO CONN.
	RAILROAD GRADE SEPARATION
	COMBINATION HIGHWAY - RAILROAD GRADE SEPARATION
	OTHER BRIDGE
	TUNNEL
<i>Toll</i>	TOLL BRIDGE, TUNNEL, HIGHWAY OR COMBINATION
	FRONTAGE ROAD
	TERMINATED CROSS ROAD
	INTERSECTION AT-GRADE
	URBAN AREA BOUNDARY
	POST MILEAGE
	ROUTE SECTIONS

SCALE IN MILES



MONTANA

INTERSTATE ROUTE 90

Sheet II of II

Date December 31, 1975

RUN DATE : 07/23/84

1985 INTERSTATE COST ESTIMATE
TABLE C-1 - COST ESTIMATES BY ROUTES AND STATE TOTAL
STATE : MONTANA

LE15R93A
PAGE NO. : 1

(INCLUDES ALL MILEAGE AND ALL COSTS TO COMPLETE THE SYSTEM. ALL FINANCE CODES)

INTERSTATE ROUTE NUMBER	015	090	T O T A L
LENGTH, MILES	395.24	543.70	938.94
WORK CLASSIFICATION			
1. PRELIMINARY ENGINEERING	175*	55*	230
2. R.O.W. A. ACQUISITION	0*	0*	0
B. RELOCATION	0*	0*	0
3. UTILITY ADJUSTMENTS	0*	0*	0
4. EROSION CONTROL, CLEAR, GRUB, GRADE, DRAIN, MINOR STRUCT.	22,387*	4,381*	26,768
5. SUBBASE, BASE, SURFACING, AND SHOULDERS	12,969*	13,525*	26,494
6. R. R. GRADE SEPARATIONS	318*	0*	318
7. HIGHWAY GRADE SEPARATIONS WITHOUT RAMPS	3,672*	563*	4,235
8. INTERCHANGES	3,516*	1,330*	4,846
9. OTHER BRIDGES, TUNNELS AND WALLS	444*	903*	1,347
10. TRAFFIC CONTROL DEVICES	3,366*	798*	4,164
11. WEIGH STATIONS, PEDESTRIAN AND BICYCLE FACILITIES	0	0	0
12. SAFETY WORK ON COMPLETED SECTIONS	0	0	0
13. NOISE ABATEMENT MEASURES	0	0	0
14. ROADSIDE IMPROVEMENT A. LANDSCAPE PLANTING	0	0	0
B. REST AREAS AND OVERLOOKS	0	0	0
15. OTHER ITEMS: MAINT. OF TRAF., TRAINING, MOBIL., ETC.	2,386	1,288	3,674
16. SUBTOTAL, LINE 4 THRU 15	49,058	22,788	71,846
17. CONSTRUCTION ENG'R AND CONTINGENCIES - 15% OF LINE 16	7,359	3,418	10,777
18. TOTAL COST OF CONST., LINES 16 AND 17	56,417	26,206	82,623
19. TOTAL ESTIMATE COST. LINES 1, 2, 3 AND 18	56,592	26,261	82,853

RUN DATE : 07/23/84

1985 INTERSTATE COST ESTIMATE

LE15R93A

TABLE C-2 - COST ESTIMATES BY ROUTES AND STATE TOTAL

PAGE NO. : 1

STATE : MONTANA

(INCLUDES ONLY THOSE COSTS AND ASSOCIATED MILEAGE ELIGIBLE FOR FAI FUNDING, FINANCE CODE 21, 22, 23 AND 25)

INTERSTATE ROUTE NUMBER	015	090	T O T A L
LENGTH, MILES	28.20	33.50	61.70
1. PRELIMINARY ENGINEERING	175	55	230
2. R.O.W. A. ACQUISITION	0	0	0
B. RELOCATION	0	0	0
3. UTILITY ADJUSTMENTS	0	0	0
4. EROSION CONTROL, CLEAR, GRUB, GRADE, DRAIN, MINOR STRUCT.	22,387	4,381	26,768
5. SUBBASE, BASE, SURFACING, AND SHOULDERS	12,969	13,525	26,494
6. R. R. GRADE SEPARATIONS	318	0	318
7. HIGHWAY GRADE SEPARATIONS WITHOUT RAMPS	3,672	563	4,235
8. INTERCHANGES	3,516	1,330	4,846
9. OTHER BRIDGES, TUNNELS AND WALLS	444	903	1,347
10. TRAFFIC CONTROL DEVICES	3,366	798	4,164
11. WEIGH STATIONS, PEDESTRIAN AND BICYCLE FACILITIES	0	0	0
12. SAFETY WORK ON COMPLETED SECTIONS	0	0	0
13. NOISE ABATEMENT MEASURES	0	0	0
14. ROADSIDE IMPROVEMENT A. LANDSCAPE PLANTING	0	0	0
B. REST AREAS AND OVERLOOKS	0	0	0
15. OTHER ITEMS: MAINT. OF TRAF., TRAINING, MOBIL., ETC.	2,386	1,288	3,674
16. SUBTOTAL, LINE 4 THRU 15	49,058	22,788	71,846
17. CONSTRUCTION ENG'R AND CONTINGENCIES - 15% OF LINE 16	7,359	3,418	10,777
18. TOTAL COST OF CONST., LINES 16 AND 17	56,417	26,206	82,623
19. TOTAL ESTIMATE COST, LINES 1, 2, 3 AND 18	56,592	26,261	82,853

TABLE D COST OF INTERSTATE BOND, ACI AND ADVANCE

ACQUISITION PROJECTS

(Projects completed or in authorized status as of January 1, 1984)

STATE Montana

Interstate Route	Estimate Section	Project No.	Work Class	Rural or Urban	Actual or Estimated Project Costs		Total Cost (\$1,000)
					Federal (I) Funds (\$1,000)	State Matching (\$1,000)	
90		I-IG-ID 90-1(61)27 U-9	Const.	R	4,791	462	5,253
Preparation of Estimate I-EST-85(001)					23	2	25
TOTAL	xxxxx	xxxxx	xxxxx	xxxxx	4,814	464	5,278

The above projects are not included in Table B or Table C.

